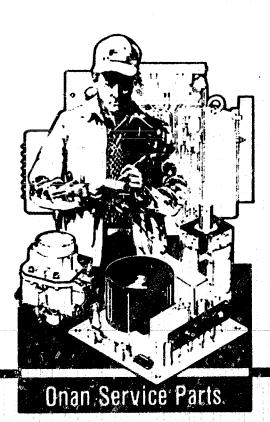
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Onan

Parts Manual

ROJF

GenSet



974-0222 10-88 (SPEC A-AD) Replaces 3-81 (Spec A-AC)

Index

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INTRODUCTION

This catalog applies to the standard RDJF Generator Sets as listed in the Generator Set Data Table. The model designation shown began during 1969. Previously, the model designations used a zero in place of the decimal in the kilowatt rating. (Example: 14.5 RDJF was formerly 14 RDJF and 17.5 RDJF was formerly 17 RDJF.) Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Unless otherwise mentioned in the description, parts are interchangeable between models. Parts illustrations are typical. Using the model and specification number from your generator set nameplate, select the Parts Key Number (1 or 2 in the last column) that applies to your set. This Parts Key Number represents parts that apply to radiator cooled or city water cooled models. Right and left sides are determined by facing the engine end (front) of the set.

GENERATOR SET DATA TABLE

| MODEL AND | COOLING | | ELECTRICAL DATA | | | | | |
|----------------------|------------|-------|-----------------|-------|------|-------|--|--|
| SPECIFICATION NUMBER | SYSTEM | WATTS | VOLTS | HERTZ | WIRE | PHASE | PARTS KEY NO. | |
| 14.5RDJF-53R/* | Radiator | 14500 | 120/240 | 50 | 3 | 1 | A CONTRACTOR OF THE PROPERTY O | |
| 14.5RDJF-53CR/* | Radiator | 14500 | 120/240 | 50 | | 1 | | |
| 14.5RDJF-54R/* | Radiator | 14500 | 120/208 | 50 | 4 | 3 | | |
| 14.5RDJF-55DR/* | Radiator | 14500 | 120/240 | 50 | 4 | 3 | 1 | |
| 14.5RDJF-57R/* | Radiator | 14500 | 220/380 | 50 | 4 | 3 | | |
| 14.5RDJF-57XR/* | Radiator | 14500 | 240/416 | 50 | 4 | 3 | | |
| 14.5RDJF-58R/* | Radiator | 14500 | 127/220 | 50 | 4 | 3 | | |
| 14.5RDJF-518R/* | Radiator | 14500 | * | 50 | 12 | 3 | | |
| 17 5RDJF-3R/* | Radiator | 17500 | 120/240 | 60 | 3 | 1 | per per papar manutico de l'archerde de manutico de l'archerde | |
| 17 5RDJF-3CR/* | Radiator | 17500 | 120/240 | 60 | | 1 | | |
| 17.5RDJF-4R/* | Radiator | 17500 | 120/208 | 60 | 4 | 3 | | |
| 17.5RDJF-4XR/* | Radiator | 17500 | 277/480 | 60 | 4 | 3 | | |
| 17 5RDJF-5DR/* | Radiator | 17500 | 120/240 | 60 | 4 | 3 | 1 | |
| 17.5RDJF-8R/* | Radiator | 17500 | 127/220 | 60 | 4 | 3 | | |
| 17.5RDJF-9XR/* | Radiator | 17500 | 347/600 | 60 | 4 | 3 | | |
| 17.5RDJF-18/* | Radiator | 17500 | * | 60 | ‡2 | 3 | | |
| 14.5RDJF-53R/* | City Water | 14500 | 120/240 | 50 | 3 | 1 | | |
| 14.5RDJF-53CR/* | City Water | 14500 | 120/240 | 50 | ** | 1 | | |
| 14.5RDJF-54R/* | City Water | 14500 | 120/208 | 50 | 4 | 3 | - | |
| 14.5RDJF-55DR/* | City Water | 14500 | 120/240 | 50 | 4 | 3 | 2 | |
| 14.5RDJF-57R/* | City Water | 14500 | 220/380 | 50 | 4 | 3 | | |
| 14.5RDJF-57XR/* | City Water | 14500 | 240/416 | 50 | 4 | 3 | | |
| 14.5RDJF-58R/* | City Water | 14500 | 127/220 | 50 | 4 | 3 | | |
| 14.5RDJF-518R/* | City Water | 14500 | * | 50 | 12 | 3 | | |
| 17.5RDJF-3R/* | City Water | 17500 | 120/240 | 60 | 3 | 1 | THE RESERVE THE PROPERTY OF TH | |
| 17.5RDJF-3CR/* | City Water | 17500 | 120/240 | 60 | | 1 | | |
| 17.5RDJF-4R/* | City Water | 17500 | 120/208 | 60 | 4 | 3 | , | |
| 17.5RDJF-4XR/* | City Water | 17500 | 277/480 | 60 | 4 | 3 | | |
| 17.5RDJF-5DR/* | City Water | 17500 | 120/240 | 60 | 4 | 3 | 2 | |
| 17.5RDJF-8R/* | City Water | 17500 | 127/220 | 60 | 4 | 3 | . :. : | |
| 17.5RDJF-9XR/* | City Water | 17500 | 347/600 | 60 | 4 | 3 | | |
| 17.5RDJF-18R/* | City Water | 17500 | * | 69 | 12 | 3 | | |

(GENERATOR SET DATA TABLE CONTINUED)

GENERATOR SET DATA TABLE (CONTINUED)

| MODEL AND | COOLING | | PARTS | | | | |
|-------------------------|----------------|------------|---------|-------|------|-------|---------|
| SPECIFICATION NUMBER | SYSTEM | WATTS | VOLTS | HERTZ | WIRE | PHASE | KEY NO. |
| Models listed below are | Pennsylvania A | pproved Se | ets | | | | |
| 15.0RDJF-3R50/* | Radiator | 15000 | 120/240 | 60 | 3 | T i | |
| 15.0RDJF-3CR50/* | Radiator | 15000 | 120/240 | 60 | •• | 1 | |
| 15.0RDJF-4R50/* | Radiator | 15000 | 120/208 | 60 | 4 | 3 | 1 |
| 15.0RDJF-4XR50/* | Radiator | 15000 | 277/480 | 60 | 4 | 3 | |
| 15.0RDJF-18R50/* | Radiator | 15000 | * | 60 | 12 | 3 | |
| 16.0RDJF-3R50/* | Radiator | 16000 | 120/240 | 60 | 3 | 1 | |
| 16.0RDJF-3CR50/* | Radiator | 16000 | 120/240 | 60 | •• | 1 |] |
| 16.0RDJF-4R50/° | Radiator | 16000 | 120/208 | 60 | 4 | 3 | 1 1 |
| 16.0RDJF-4XR50/* | Radiator | 16000 | 277/480 | 60 | 4 | 3 | |
| 16.0RDJF-18R50/* | Radiator | 16000 | * | 60 | 12 | 3 | |
| 15.0RDJF-3A50/* | City Water | 15000 | 120/240 | 60 | 3 | 1 | |
| 15.0RDJF-3CR50/* | City Water | 15000 | 120/240 | 60 | | 1 1 | 1 |
| 15.0RDJF-4R50/* | City Water | 15000 | 120/208 | 60 | 4 | 3 | 2 |
| 15.0RDJF-4XR50/* | City Water | 15000 | 277/480 | 60 | 4 | 3 | |
| 15.0RDJF-18R50/* | City Water | 15000 | * | 60 | 12 | 3 | |
| 16.0RDJF-3R50/* | City Water | 16000 | 120/240 | 60 | 3 | 1 | |
| 16.0RDJF-3CR50/* | City Water | 16000 | 120/240 | 60 | •• | 1 | 1 |
| 16.0RDJF-4R50/* | City Water | 16000 | 120/208 | 60 | 4 | 3 | 2 |
| 16.0RDJF-4XR50/* | City Water | 16000 | 277/480 | 60 | 4 | 3 | |
| 16.0RDJF-18R50/* | City Water | 16000 | * | 60 | 12 | 3 | |

⁻ The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter(s). The specification number denotes customer requested options or deviations from a standard (1A, 1B, ... 1AA, 1AB, etc.) model. The specification letter advances (A to B, B to C ... Z to AA, AA to AB, etc.) with major manufacturing changes.

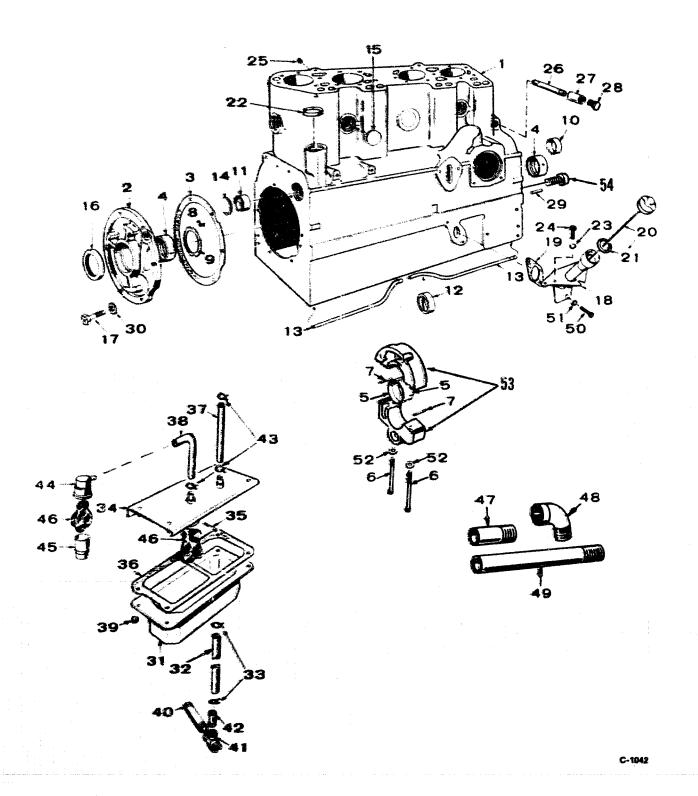
STANDARD PARTS SECTION

This section contains parts applicable to models listed in the generator set data table.

^{** -} These generators have four load wires which are reconnectible for 120 volt, 2 wire service or 240 volt, 2 wire service or 120/240 volt, 3

^{★ -} Broad range reconnectible sets, refer to connection diagram inside outlet box cover.

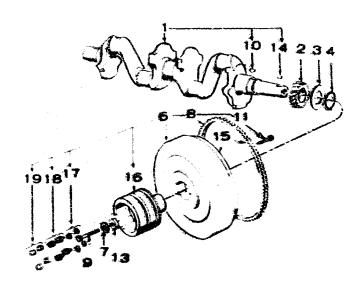
CYLINDER BLOCK

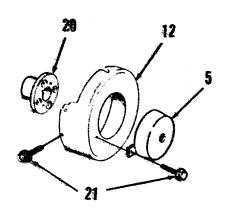


CYLINDER BLOCK

| 110-2449 | REF. | | QTY. USED | PART DESCRIPTION | REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|--|------|------------|--------------|-----------------------------|----------------|-------------|--------------|---|
| 2 101-0336 | 1 | | | | 27 | 505-0027 | 1 | Coupling, Pipe (1/4") Water Drain |
| 101-0386 | 2 | | | , , | 28 | 502-0153 | 1 | Plug, Pipe (Brass) 1/4" Hex Head - Water Drain |
| Bearing Plate Spec And B 101-0359-02 2 *Standard 32 503-0564 1 103-0359-02 2 .002" Undersize 33 503-0191 2 101-0359-02 2 .002" Undersize 34 123-1045 1 103-0359-02 2 .002" Undersize 34 123-1045 1 101-0359-02 2 .002" Undersize 35 516-0177 1 1 101-0359-02 2 .002" Undersize 36 101-0359-02 2 .002" Undersize 37 503-0563 1 303-0564 3 4 303-0197 2 303-0197 2 303-0197 2 303-0197 2 303-0197 2 303-0197 2 303-0197 2 303-0197 2 303-0197 3 303-0197 2 303-0197 3 303-0197 2 303-0197 3 303-0 | 3 | 101-0386 | 1 | *#Gasket and Shim Kit, Rear | 29 | 516-0141 | 2 | *#Pin, Gearcase Locating |
| BEARING, MAIN - FRONT AND REAR 101-0359-10 2 2002" Undersize 33 503-0197 2 Clamp, Overflow Hose - Spec A and B 101-0359-10 2 0.00" Undersize 33 503-0197 2 Clamp, Overflow Hose - Spec A and B 101-0359-20 2 0.00" Undersize 34 123-1045 1 Cover, Breather Pulsation Dispers - Spec A and B 101-0359-30 2 0.00" Undersize 35 516-0177 1 Dispers - Spec A and B 101-0359-30 2 0.00" Undersize 35 516-0177 1 Dispers - Spec A and B 101-0361-02 2 0.00" Undersize 37 503-0563 1 Hose, Cover to Breather Outside Spec A and B 101-0361-10 2 0.10" Undersize 37 503-0563 1 Hose, Cover to Breather Outside Spec A and B 101-0361-10 2 0.00" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 101-0361-20 2 0.00" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 101-0361-20 2 0.00" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 101-0361-20 2 0.00" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 101-0361-20 2 0.00" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 101-0361-20 2 0.00" Undersize 39 870-0240 4 Nut, Self-Locking (Wash Base) #10-034 1 #Bearing Housing 39 870-0240 4 Nut, Self-Locking (Wash Base) #10-32 - Spec A and B 101-0365 1 #Bearing Camshath - Front 101-0365 1 #Bearing Camshath - Front 101-0365 1 #Bearing Camshath - Center 12 101-0365 1 Flore Camshath - Center 13 Flore Camshath - Center 13 Flore Camshath - Center | | | | | 30 | 526-0245 | 6 | *#Washer, Bearing Plate |
| 101-0359 2 "sistandard 32 503-0564 1 Hose, Overflow - Spec, A and B 101-0359-00 2 .002" Undersize 34 123-1045 1 .Cover, Breather Puisation 101-0359-30 2 .030" Undersize 35 516-0177 1 .Pin, Cottler - Spec A and B .01-0359-30 2 .030" Undersize 36 123-1049 1 .Gasket, Cover - Spec A and B .01-0361-30 2 .002" Undersize 36 123-1049 1 .Gasket, Cover - Spec A and B .01-0361-30 2 .002" Undersize 37 .503-0563 1 .605-0690 1 .01-0361-30 2 .002" Undersize 37 .503-0563 1 .605-0690 1 .01-0361-30 2 .002" Undersize 38 .503-0562 1 .605-0690 1 .01-0361-30 2 .002" Undersize 38 .503-0562 1 .605-0690 1 .01-0361-30 2 .002" Undersize 38 .503-0562 1 .605-0690 1 .01-0361-30 2 .002" Undersize 38 .503-0562 1 .605-0690 1 .01-0361-30 2 .002" Undersize 38 .503-0562 1 .002-0690 .00 | _ | | | | 31 | 123-1061 | 1 | Damper, Breather Pulsation - |
| 101-0359-02 2 | 4 | | | | | | | |
| 101-0359-10 2 .010" Undersize 34 123-1045 1 .Cover, Breather Puisation 101-0359-30 2 .030" Undersize 35 .516-0177 1 .Pin, Cotter - Spec A and B | | | | | | | | Hose, Overflow - Spec A and B |
| 101-0359-30 2 | | | | | 33 | 503-0197 | 2 | |
| 101-0359-30 2 0.030" Undersize 35 516-0177 1 Pin, Cotter - Spec A and 101-0361-02 2 0.02" Undersize 37 503-0563 1 Hose, Cover to Manifold Spec A and B 101-0361-30 2 0.02" Undersize 37 503-0563 1 Hose, Cover to Manifold Spec A and B 101-0361-30 2 0.00" Undersize 38 503-0562 1 Hose, Cover to Manifold Spec A and B 101-0361-30 2 0.00" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 101-0361-30 2 0.00" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 101-0361-30 2 Pin, Center Bearing Housing 39 870-0240 4 Nut, Sell-Locking (Wash Base) #10-32 - Spec A and B 101-0365 1 #Bearing, Camshaft Front 1 101-0365 1 #Bearing, Camshaft Front 1 101-0365 1 #Bearing, Camshaft - Rear 41 505-0682 1 Tee, Pipe (1/2") Spec A and B 1 101-0365 1 #Bearing, Camshaft - Center 42 505-0674 1 Nipple, Pipe (1/2") Spec A and B 1 101-0365 1 #Bearing, Camshaft - Center 42 505-0674 1 Nipple, Pipe (1/2") Spec A and B Nipple, Half - Pipe (1/2" x 2-1/2") Spec A and B 1 101-0365 1 #Floating, Camshaft - Center 42 505-0674 1 Nipple, Half - Pipe (1/2" x 2-1/2") Spec A and B 1 101-0365 1 #Floating, Camshaft - Center 42 505-0674 1 Nipple, Half - Pipe (1/2" x 2-1/2") Spec A and B 1 101-0365 1 #Floating, Camshaft - Center 42 505-0674 1 Nipple, Half - Pipe (1/2" x 2-1/2") Spec A and B 1 101-0365 1 #Floating, Camshaft - Center 42 505-0674 1 Nipple, Half - Pipe (1/2" x 2-1/2") Spec A and B 1 101-0365 1 #Floating, Camshaft - Center 41 23-0765 1 Cap, Breather Tube - Spec A and B 1 101-0365 1 #Floating, Camshaft - Pear 1 101-0365 1 # | | | | | | | | |
| SEARING HALF, MAIN - CENTER 35 516-0177 1 Pin. Cotter - Spec A and B 101-0361-02 2 002" Undersize 37 503-0563 1 Hose, Cover to Manifold Spec A and B 101-0361-02 2 002" Undersize 38 503-0563 1 Hose, Cover to Manifold Spec A and B 101-0361-30 2 002" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 61 101-0361-30 2 1 Washer, Crankshaft Thrust Spec A and B S16-0172 4 Pin. Thrust Washer Base) #101-22 - Spec A and B S16-0072 4 Pin. Thrust Washer Base) #101-22 - Spec A and B S16-0072 4 Pin. Thrust Washer Base) #101-22 - Spec A and B S16-0072 4 Pin. Thrust Washer Base) #101-22 - Spec A and B S16-0072 4 Pin. Thrust Washer Base) #101-22 - Spec A and B S16-0072 4 Pin. Thrust Washer Base) #101-22 - Spec A and B S16-0072 4 Pin. Thrust Washer Base) #101-22 - Spec A and B Spec A and B S16-0072 4 Pin. Thrust Washer Spec A and B S | | | | | 34 | 123-1045 | 1 | |
| 101-0361 2 "#Standard 36 123-1049 1 Gasket, Cover - Spec A and B 101-0361-20 2 002" Undersize 37 503-0563 1 Hose, Cover to Manifold 101-0361-20 2 020" Undersize 38 503-0562 1 Hose, Cover to Manifold Spec A and B 101-0361-20 2 020" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 101-0361-30 2 030" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 101-0361-30 2 "#Bott, Center Bearing Housing 39 870-0240 4 Nut, Self-Locking (Wash B 516-0072 4 Pin, Thrust Washer Base) #10-32 - Spec A and B 101-0263 1 "#Bearing, Camshaft - Front 101-0263 1 "#Bearing, Camshaft - Fear 41 505-0690 1 Nipple, Pipe (1/2" \times Cover and B 1 101-0364 1 "#Bearing, Camshaft - Center 42 505-0674 1 Nipple, Pipe (1/2" \times Cover and B 1 101-0365 1 "#Bearing, Camshaft - Center 42 505-0674 1 Nipple, Half - Pipe 120-0586 1 Front | E | | | | 0.5 | 240.0477 | | Damper - Spec A and B |
| 101-0361-02 2 .002" Undersize 37 503-0563 1 Hose, Cover to Manifold Spec A and B 101-0361-30 2 .030" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 101-0361-30 2 .030" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 101-0361-30 2 .030" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 516-0149 2 Pin, Center Bearing Housing 39 870-0240 4 Nut, Self-Locking (Wash 8 516-0072 4 Pin, Thrust Washer Base) #10-32 - Spec A and B 101-0263 1 #Bearing, Camshaft Front Spec A and B 11 101-0365 1 #Bearing, Camshaft - Front Spec A and B 11 101-0365 1 #Bearing, Camshaft - Center 41 505-0682 1 Tee, Pipe (1/2" Spec A and B 120-0586 1 Front (1/2" x 2-1/2") Spec A and B 120-0586 1 Front (1/2" x 2-1/2") Spec A 14 517-0058 1 #Bearing, Camshaft - Rear 43 503-0170 4 Clamp, Hose - Spec A and B 123-0586 1 PILUG, EXPANSION - CYLINDER BLOCK 1-7/16" 1 4 517-0059 3 Key 1 517-0059 3 Key 1 4 517-0059 4 Key 2 517-0059 4 Key 2 517-0059 4 Key 2 517-0059 1 *#IT-046 Spec A and B 517-0059 1 *#IT-046 Spec A and B 517-0059 1 *#IT-046 Spec A and B | Þ | | | | | | | |
| 101-0361-10 2 .010" Undersize 37 503-0563 1 Hose, Cover to Manifold Spec A and B 101-0361-30 2 .020" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 101-0361-30 2 .030" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 101-0361-30 2 .030" Undersize 38 503-0562 1 Hose, Cover to Breather Cap - Spec A and B 101-0364 2 Pin, Thrust Washer 39 870-0240 4 Nut, Self-Locking (Wash Base) #10-32 - Spec A 101-0363 1 #Bearing, Camshaft - Front 101-0363 1 #Bearing, Camshaft - Rear 41 505-0680 1 Nipple, Pipe (1/2" x Clos Spec A and B 11 101-0365 1 #Bearing, Camshaft - Center 120-0586 1 Front 120-0586 | | | | | 30 | 123-1049 | , | |
| 101-0361-20 | | | | | 27 | 503 0563 | • | |
| 101-0361-30 | | | | | 31 | 303-0303 | ' | |
| 6 101-0342 2 "#Bolt, Center Bearing Housing 7 516-0149 2 Pin, Center Bearing Housing 8 516-0072 4 Pin, Thrust Washer 9 104-0420 2 "#Washer, Crankshafi Thrust 9 104-0420 2 "#Washer, Crankshafi Thrust 9 104-0420 1 "#Bearing, Camshaft - Front 1 101-0365 1 "#Bearing, Camshaft - Rear 1 101-0365 1 "#Bearing, Camshaft - Rear 1 101-0365 1 "#Bearing, Camshaft - Center 1 120-0586 1 Front 1 120-0586 1 Front 1 120-0586 1 Front 1 120-0585 1 Rear 1 2 101-0363 1 "#Plug, Expansion - Rear 1 2 101-0363 1 "#Plug, Expansion - Rear 1 2 101-0365 1 "#Plug, Expansion - Rear 1 2 101-0595 1 Rear 1 2 101-0 | | | | | 38 | 503_0563 | 1 | |
| 7 516-0149 2 Pin, Center Bearing Housing 8 516-0072 4 Pin, Thrust Washer 9 104-0420 2 *#Washer, Crankshaft Thrust 101-0263 1 *#Bearing, Camshaft - Front 1101-0365 1 *#Bearing, Camshaft - Rear 1101-0365 1 *#Bearing, Camshaft - Center 1120-0586 1 Front 120-0586 1 Front 120-0586 1 Front 120-0585 1 Rear 120-0585 1 Rear 120-0585 1 *#Bearing Camshaft - Rear 120-0585 1 Rear 120-0585 1 *#Bearing Camshaft - Rear 120-0585 1 Rear 120-0585 1 Rear 120-0585 1 *#Bearing Camshaft - Rear 120-0585 1 *#Bearing Camshaft - Rear 120-0585 1 *#Tont 120-0585 1 Rear 120-0585 1 Rear 120-0585 1 *#Tont 120-0585 1 **Tont 120-0585 1 **Ton | 6 | | | | 30 | 303-0302 | ' | • |
| 8 516-0072 4 Pin, Thrust Washer (| | | | | વવ | 870-0240 | Λ | |
| 9 104-0420 2 "#Washer, Crankshafi Thrus! 40 505-0690 1 Nipple, Pipe (1/2" x Clos Spec A and B 101-0363 1 "#Bearing, Camshaft - Front | | | | | 00 | 070-0240 | • | |
| 10 | | | | *#Washer Crankshafi Thrust | 40 | 505-0690 | 1 | |
| 11 101-0365 1 "#Bearing, Camshaft - Rear 12 101-0364 1 "#Bearing, Camshaft - Center 13 "#TUBE, CRANKCASE OIL 42 505-0674 1 Nipple, Half - Pipe (1/2") Spec A and B 120-0586 1 Front (1/2" x 2-1/2") Spec A 120-0585 1 Rear 43 503-0170 4 Clamp, Hose - Spec A ard B 127-0053 1 "#Plug, Expansion - Rear 44 123-0787 1 Cap, Breather Tube - Spec A and B 157-0053 1 "#Plug, Expansion - Rear 44 123-0787 1 Cap, Breather Tube - Spec A and B 1-7/16" and B 1-7/16" and B 1-7/16" and B 1-7/16" 517-0059 3 ' Key 1 46 123-0865 2 Filter, Breather Tube - Spec A and B 1-7/16" | | | | | ••• | 300 0000 | • | |
| 12 101-0364 1 *#Bearing, Camshaft - Center 13 *#TUBE, CRANKCASE OIL | | | | | 41 | 505-0682 | 1 | • |
| 13 "#TUBE, CRANKCASE OIL 120-0586 1 Front 120-0585 1 Rear 14 517-0053 1 "#Plug, Expansion - Rear Camshaft Opening 15 PLUG, EXPANSION - CYLINDER BLOCK 1-7/16" 517-0059 3 Key 1 517-0059 4 # Key 2 517-0096 2 "#1-9/16" 517-0096 2 "#1-9/16" 517-0096 1 Seal, Crankshaft - Rear 17 805-0019 6 "#Bolt, Rear Bearing Plate 18 123-1086 1 Tube, Oil Fill 19 123-0667 1 Gasket, Oil Fill 20 123-1056 1 Cap and Indicator 21 123-0191 1 Gasket, Cap 22 517-0103 1 "#Plug, Core Hole - Begin Spec C 23 850-0045 3 Washer, Lock - Spring (5/16") 24 800-0026 3 Screw, Cap - Hex Head Out Water Jacket Heater Countersunk) Key 1 Sets Without Water Jacket Heater Spec C Washer, Lock - Spring (5/16") Sets With Water Jacket Heater Countersunk) Key 1 Sets Without Water Jacket Heater Countersunk) Key 1 Sets Without Water Jacket Heater Sec C Water Jacket Heater Countersunk) Key 1 Sets Without Water Jacket Heater Sec C Washer, Cook - Spring (5/16") Sets Without Heat Exchar | | | | | • • • | | • | |
| 120-0586 | 13 | | | | 42 | 505-0674 | 1 | |
| 120-0585 | | | | | | | | (1/2" x 2-1/2") Spec A and B |
| 14 517-0053 | | 120-0585 | 1 | Rear | 43 | 503-0170 | 4 | Clamp, Hose - Spec A and B |
| 1-7/16" 517-0059 | 14 | 517-0053 | 1 | | 44 | 123-0787 | 1 | Cap, Breather Tube - Spec A |
| 517-0059 | 15 | | NSION - | | 45 | 123-0645 | 1 | *#Tube, Breather - Spec A and B |
| 517-0096 | | | | * Key 1 | 46 | 123-0865 | 2 | Filter, Breather Tube - |
| 517-0097 | | | | | | | | • |
| Seal, Crankshaft - Rear With Water Jacket Heater 17 805-0019 6 "#Bolt, Rear Bearing Plate 48 505-0039 1 Elbow, Pipe (3/8"-90") K Sets With Water Jacket Heater 18 123-1086 1 Tube, Oil Fill 49 505-0273 1 Nipple, Half - Pipe 123-0567 1 Gasket, Oil Fill 49 505-0273 1 Nipple, Half - Pipe (3/8" x 4") Key 1 Sets (3/8" x | | | | | 47 | 505-0135 | 1 | |
| 17 805-0019 6 "#Bolt, Rear Bearing Plate (Special) Sets With Water Jacket (Special) Sets With Water Jacket Heater 18 123-1086 1 Tube, Oil Fill Heater 19 123-0667 1 Gasket, Oil Fill 49 505-0273 1 Nipple, Half - Pipe (3/8" x 4") Key 1 Sets (5/16-18 x 3/4") 23 850-0045 3 Washer, Lock - Spring (5/16") 51 850-0045 2 Washer, Lock - Spring (5/16-18 x 3/4") 24 800-0026 3 Screw, Cap - Hex Head (5/16-18 x 3/4") 25 505-0266 2 "Plug, Pipe (3/8" - Square (5/16-18 x 3/4") 26 505-0449 1 Nipple, Pipe (1/4" x 6") (3/8-16 x 5/16") City Water Cooled Sets Begin Spec (3/8-16 x 5/16") City Water Coole | | | | | | | | (3/8" x 1-1/2") Key 1 Sets |
| (Special) 18 123-1086 1 Tube, Oil Fill | | | | | | | _ | |
| 19 123-0667 1 Gasket, Oil Fill 49 505-0273 1 Nipple, Half - Pipe 20 123-1056 1 Cap and Indicator (3/8" x 4") Key 1 Sets 21 123-0191 1 Gasket, Cap Water Jacket Heater 22 517-0103 1 "#Plug, Core Hole - Begin 50 800-0026 2 Screw, Cap - Hex Head Spec C (5/16-18 x 3/4") 23 850-0045 3 Washer, Lock - Spring (5/16") 51 850-0045 2 Washer, Lock - Spring (5/16-18 x 3/4") 24 800-0026 3 Screw, Cap - Hex Head 52 526-0035 2 "#Washer, Flat (17/32" ID > 7/8" OD x 1/8" Thk) 25 505-0266 2 "Plug, Pipe (3/8" - Square Countersunk) Key 1 Sets Without Water Jacket Heater 54 SCREW, SET - SOCKET HEAD 26 505-0449 1 Nipple, Pipe (1/4" x 6") (3/8-16 x 5/16") City Water Cooled Sets Begin Special Special Sets Without Heat Exchare 603-0067 4 "Sets Without Heat Exchare 603-006 | | | _ | (Special) | 48 | 505-0039 | 1 | Sets With Water Jacket |
| 20 123-1056 1 Cap and Indicator (3/8" x 4") Key 1 Sets 21 123-0191 1 Gasket, Cap 22 517-0103 1 *#Plug, Core Hole - Begin Spec C 23 850-0045 3 Washer, Lock - Spring (5/16") 51 850-0045 2 Washer, Lock - Spring (5/16-18 x 3/4") 24 800-0026 3 Screw, Cap - Hex Head (5/16-18 x 3/4") 25 505-0266 2 *Plug, Pipe (3/8" - Square Countersunk) Key 1 Sets Without Water Jacket Heater 26 505-0449 1 Nipple, Pipe (1/4" x 6") Water Drain (3/8" x 4") Key 1 Sets Water Jacket Heater 50 800-0026 2 Screw, Cap - Hex Head (5/16-18 x 3/4") 51 850-0045 2 Washer, Lock - Spring (5/16") 52 526-0035 2 *#Washer, Flat (17/32" ID: 7/8" OD x 1/8" Thk) 53 101-0356 1 *#Housing, Bearing - Center (Includes Pins) 54 SCREW, SET - SOCKET HEAD (3/8-16 x 5/16") City Water Cooled Sets Begin Special Special Sets (3/8" x 4") Key 1 Sets | | | | | 40 | 5050272 | 4 | |
| 21 123-0191 | | | | | 48 | 505-0273 | 1 | • |
| 22 517-0103 1 "#Plug, Core Hole - Begin Spec C (5/16-18 x 3/4") 23 850-0045 3 Washer, Lock - Spring (5/16") 51 850-0045 2 Washer, Lock - Spring (5/16-18 x 3/4") 24 800-0026 3 Screw, Cap - Hex Head 52 526-0035 2 "#Washer, Flat (17/32" ID > 7/8" OD x 1/8" Thk) 25 505-0266 2 "Plug, Pipe (3/8" - Square Countersunk) Key 1 Sets Without Water Jacket Heater 54 SCREW, SET - SOCKET HEAD (Includes Pins) 26 505-0449 1 Nipple, Pipe (1/4" x 6") (3/8-16 x 5/16") City Water Cooled Sets Begin Special Special Sets Without Heat Exchare 803-0067 4 #Sets Without Heat Exchare 803-0067 | | | • | | | | | |
| Spec C (5/16-18 x 3/4") 23 850-0045 3 Washer, Lock - Spring (5/16") 51 850-0045 2 Washer, Lock - Spring (5/16-18 x 3/4") 24 800-0026 3 Screw, Cap - Hex Head 52 526-0035 2 *#Washer, Flat (17/32" ID: 7/8" OD x 1/8" Thk) 25 505-0266 2 *Plug, Pipe (3/8" - Square Countersunk) Key 1 Sets Without Water Jacket Heater 54 SCREW, SET - SOCKET HEAD (Includes Pins) 26 505-0449 1 Nipple, Pipe (1/4" x 6") (3/8-16 x 5/16") City Water Cooled Sets Begin Special Special Sets Without Heat Exchare 603-0067 4 #Sets Without Heat Exchare 603-0067 603-006 | | | | | 50 | 800-0036 | 9 | |
| 24 800-0026 3 Screw, Cap - Hex Head 52 526-0035 2 *#Washer, Flat (17/32" ID > 7/8" OD x 1/8" Thk) 25 505-0266 2 *Plug, Pipe (3/8" - Square 53 101-0356 1 *#Housing, Bearing - Center Countersunk) Key 1 Sets Without Water Jacket Heater 54 SCREW, SET - SOCKET HEAD 26 505-0449 1 Nipple, Pipe (1/4" x 6") (3/8-16 x 5/16") City Water Cooled Sets Begin Spectrum (3/8-16 x 5/16") City Water Cooled Sets Begin Spectrum (3/8-16 x 5/16") City Water Cooled Sets Without Heat Exchar | | | | Spec C | | | | (5/16-18 x 3/4") |
| (5/16-18 x 3/4") 25 505-0266 2 *Plug, Pipe (3/8" - Square | | | | | | | | |
| 25 505-0266 2 *Plug, Pipe (3/8" ~ Square 53 101-0356 1 *#Housing, Bearing - Center Countersunk) Key 1 Sets With- (Includes Pins) 26 505-0449 1 Nipple, Pipe (1/4" x 6") (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors Water Drain 803-0067 4 #Sets Without Heat Exchar | 24 | 0111-11120 | 3 | | 52 | 520-0035 | 2 | |
| Countersunk) Key 1 Sets With- out Water Jacket Heater 26 505-0449 1 Nipple, Pipe (1/4" x 6") Water Drain Countersunk) Key 1 Sets With- (Includes Pins) 54 SCREW, SET - SOCKET HEAD (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Begin Spectors (3/8-16 x 5/16") City Water Cooled Sets Water C | 25 | 505-0266 | 9 | | 52 | 101.0356 | 1 | · · · · · · · · · · · · · · · · · · · |
| out Water Jacket Heater 54 SCREW, SET - SOCKET HEAD 26 505-0449 1 Nipple, Pipe (1/4" x 6") (3/8-16 x 5/16") City Water Cooled Sets Begin Spec Water Drain 803-0067 4 #Sets Without Heat Exchar | . 23 | JUJ UEUU | - | | 50 | .0 | • | |
| 26 505-0449 1 Nipple, Pipe (1/4" x 6") (3/8-16 x 5/16") City Water Cooled Sets Begin Spec Water Drain 803-0067 4 #Sets Without Heat Exchar | | | | | 54 | SCREW. SE | T - SOCKE | |
| Water Drain 803-0067 4 #Sets Without Heat Exchar | 26 | 505-0449 | 1 | | - ' | | | |
| 803-006/ 1 Sels With Heat Fychande | | | | | | | | #Sets Without Heat Exchanger Sets With Heat Exchanger |

^{* -} Parts Included in 110-2449 Cylinder Block Assembly. # - Parts Included in 110-2450 Cylinder Block Assembly.





| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|-------------|--------------|--|
| 1 | 104-1361 | 1 | Crankshaft (Includes Keys) |
| 2 | 104-0418 | 1 | Gear, Crankshaft |
| 3 | 104-0416 | 1 | Washer, Gear Retainer |
| 4 | 518-0188 | 1 | Ring, Lock |
| 5 | 104-0594 | 1 | Cover, Flywheel Guard - Key 2 Sets Without Heat Exchanger |
| 6 | FLYWHEEL | ASSEMBL | Y |
| | | | Key 1 |
| | 104-0549 | 1 | Spec A through AB (Includes Parts Marked *) |
| | 104-1129 | | Begin Spec AC |
| | | | (Includes Parts Marked +) |
| | | 1.1 | Key 2 |
| . ! | 104-0556 | 1 | Sets Without Heat Exchanger (Includes Parts Marked #) |
| | 104-0549 | 1 | Sets With Heat Exchanger (Includes Parts Marked *) |
| 7 | 850-0055 | 1 | Washer, Lock (7/16") - Flywheel Mounting |
| 8 | 104-0423 | ş | Gear, Ring |
| 9 | 800-0500 | 1 | Screw, Flywheel Mounting (Special) |
| 10 | 515-0001 | 1 | Key, Crankshaft Gear |
| 11 | 801-0054 | 4 +# | "Screw, Flywheel Hub Mounting (3/8-24 x 2") |

| REF. NO. | PART MO. | QTY. USED | PART DESCRIPTION |
|-------------|-------------|--------------|---|
| 12 | 104-0510 | 1 | Guard, Flywheel - Key 2 |
| 13 | 526-0185 | 1 | Washer, Flywheel Mounting |
| 14 | 515-0153 | 7 | Key, Flywheel to Crankshaft |
| 15 | 104-0547 | 1 + | #*Flywheel (Includes Ring Gear) |
| 16 | HUB & PUL | LEY, FLY | WHEEL |
| | | | Key 1 |
| | 104-0957 | 1 | * Spec A through AB |
| | 104-1121 | 1 | + Begin Spec AC |
| | 104-0957 | 1 | *Key 2 Sets With Heat Exchanger |
| 17 | 526-0187 | . 1 + | #*Washer, Flat - Hub to Flywheel |
| 18 | 104-0543 | 4 + | (Special) #"Spacer & Washer Assembly - |
| 19 | NUT LOCK | NG LL | Hub to Flywheel |
| | 870-0352 | IING - HUL | to Flywheel (Special) |
| | 610-0332 | 4 | +Key 1, Key 2 Sets With Heat Exchanger |
| | 115-0150 | 4 | #Key 2 Sets Without Heat Exchanger |
| 20 | 134-1401 | 1 | #Hub, Flywheel - Key 2 Sets Without Heat Exchanger |
| 21 | SCREW, LO | KING HE | AD FLANGE (1/4-20 x 1/2") |
| | 821-0010 | 3 | Cover Mounting |
| | 821-0010 | 5 | Guard Mounting |

- * Parts Included in 104-0549 Flywheel Assembly.

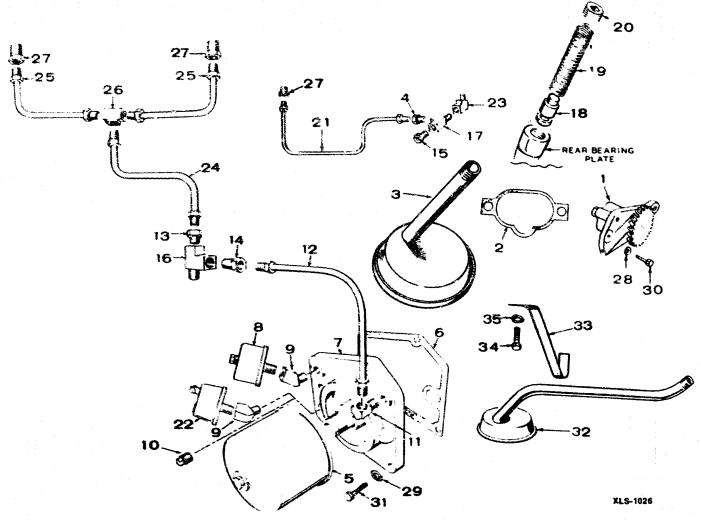
 # Parts Included in 104-0556 Flywheel Assembly.

 + -Parts Included in 104-1129 Flywheel Assembly.

CYLINDER HEAD

| REF. | PART NO. | QTY. USED | PART DESCRIPTION | 38 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |
|----------|----------------------------|--------------|---|---|
| 1 | HEAD. CYLII | | | 37 |
| • | 110-2986 | 2 | With Valves (Inclµdes Cylinder Head Connector and Parts Marked *) | 20 |
| | 110-2984 | 2 | *Without Valves (Includes Parts Marked #) | 46 |
| 2 | 110-2464 | 2 | Gasket, Head | 30 39 10 |
| 3 | 110-1501 | 8 | #Guide, Valve | |
| 4 | INSERT, VAL | | | 23 9 9 9 26 |
| | 110-1268 | 8 | #Standard .002" Oversize | 36 / 9/ - |
| | 110-1268-02 110-1268-05 | 8 8 | .002 Oversize | 15 - 031 - 1 |
| | 110-1268-10 | 8 | .010" Oversize | 711 |
| | 110-1268-25 | 8 | .025" Oversize | 14-9 |
| 5 | 110-1871 | | Valve, Intake | 12 |
| 6 | 110-1278 | 4 | *Valve, Exhaust | |
| 7 | 110-1221 | 8 | *Spring. Valve | |
| 8 | 110-1220 | 8 | *Retainer, Valve Spring | 16 |
| 9 | 110-0858 | 16 | *Lock, Valve Spring Retainer | |
| 10 | 110-0859 | 8 | Cap, Valve Stem | |
| 11 | 509-0132 | 4 | *Seal, Oil - Intake Valve | |
| 12 | ARM, ROCK | | Eulomont | |
| | 115-0128 115-0129 | 4 | Exhaust Intake | 19 |
| 14 | 115-0127 | 8 | Ball, Rocker Arm | |
| 15 | 115-0150 | 8 | Locknut, Rocker Arm | 17—6 |
| 16 | 115-0152 | 8 | *Stud, Rocker Arm | |
| 17 | 115-0149 | 8 | Rod, Valve Push | 5 |
| 18 | 115-0195 | 8 | ‡Tappet, Valve | 1 22 |
| 19 | 115-0196 | 2 | #Guide, Push Rod | |
| 20 | 115-0134 | 2 | Cover Assembly, Rocker (Includes Parts Marked △) | 000000000000000000000000000000000000000 |
| 21 | 120-0628 | 2 | △Line, Oil - Rocker Cover | |
| 22 | 115-0130 | 2 | Gasket, Rocker Cover | |
| 23 | 110-1264 | 10 | Screw, Cylinder Head | 2 |
| | | | Mounting (Special) | D I |
| 24 | 110-0546 | 4 | Gasket, Glow Plug | 18 - 18 |
| 25 26 | 333-0106 800-0501 | 4 14 | Plug, Glow - Includes Gasket Screw, Cylinder Head | 25 |
| | | | Mounting (Special) | 9 40 42 |
| 27 | 526-0174 | 14 | Washer, Flat (13/32" ID x 25/32" OD x 0.1345" Thk) | 43 8 |
| 28 | 520-0608 | 8 | *Stud, Exhaust Manifold | 43 |
| 29 | 403-0690 | 1 | Bracket, Lifting | 0 33 45 24 6 |
| 30 | 815-0562 | 2 | △Screw, Machine - Cross Recessed Pan Head (#10 x 5/16") | |
| 31 | 505-0274 | 2 | #Plug, Pipe - Countersunk Hex | 29 43 |
| ٠,٠ | 505 021 4 | - | Head (1/8") (Sets Without | 34 |
| 35 | E Company | | Standpipe) | |
| 32 | 402-0361 | 2 | Cushion, Vibration | |
| 33 | 403-0890 | 1 | Brace, Lifting Bracket | |
| 34 | 403-0826 | 1 | Spacer, Lifting Bracket | 32 👡 |
| 35 | 402-0362 | 2 | Bushing, Spacer | 35 |
| 36 | 123-1140 | 2 | #Standpipe - Begin Spec C | C-104 |
| 37 | 850-0045 | 8 | Washer, Lock - Spring (5/16") | |
| 38 | 800-0030 | 8 | Screw, Cap - Hex Head (5/16-18 x 1-1/4") | REF. PART QTY. PART |
| 39 | 526-0130 | 1 | △Washer, Flat (17/64" ID x 1" OD x 1/16" Thk) | NO. NO. USED DESCRIPTION |
| 40 | 800-0094 | 2 | Screw, Cap - Hex Head | 46 110-1282 1 Bolt, Cylinder Head (Special) |
| | | | (1/2-13 x 2") | (Switch Mounting) Sets With |
| 41 | 526-0100 | 2 | Washer, Flat - Unplated | Low Engine Temperature |
| | | | (9/16" ID x 1-3/8" OD x | Switch 47 505-0110 2 #Plug, Pipe - Square Head |
| | | | 7/64" Thk) | 47 505-0110 2 #Plug, Pipe - Square Head (3/8") - Key 1 |
| 42 | 800-0038 | . 1 | Screw, Cap - Hex Head | 그런데 저 이 이름 다일 보냈다고 바다 유명 톱트로 살았다. |
| | 11111 | | (5/16-18 x 3-1/4") | - Parts Included in 110-2986 Cylinder Head. |
| 43 | 850-0045 | 2 | Washer, Lock - Spring (5/16") | # - Parts Included in 110-2984 Cylinder Head. |
| 44 | 800-0025 | | Screw, Cap - Hex Head (5/16-18 x 3/8") | ‡ - Included in Cylinder Block Assemblies. |
| | 002 0015 | 1 | Nut, Hex (5/16-18) | Δ - Parts Included in 115-0134 Rocker Cover Assembly. |
| 45 | 862-0015 | | | 보통 그 보면 보면 되면 되었다. 그 보고 얼마를 보고 있다. 그리고 얼마를 내려 그리고 있다. |

OIL SYSTEM



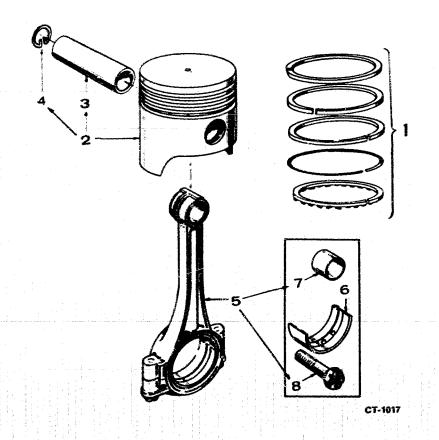
| REF. | PART NO. | QTY. USED | PART DESCRIPTION | REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|--------|-------------|--------------|------------------------------|-------------|-------------|--------------|---------------------------------|
| 1 | 120-0547 | 1 | Pump, Oil | 15 | 502-0097 | 1 | Connector, Inverted Male - |
| 2 | 120-0580 | 1 | Gasket Kit, Oil Pump | | | | Cylinder Head Line to Front |
| 3 | | 1 | Cup, Oil Pump Intake (Used | | | | Cylinder Head Tee - |
| | | | On Early Models) Sets With | | | | Spec A and B |
| | | | Straight Tube Order Oil Pump | 16 | 502-0242 | 1 | Tee, Restricted |
| | | | Intake Cup Kit 120-0756 | 17 | 502-0282 | 1 | Tee, Front Cylinder Head - |
| | | | (Includes Parts Marked *) | | | | Spec A and B |
| 4 | 502-0097 | 1 | Connector, Inverted Male - | 18 | 120-0539 | 1 | Valve, Oil By-Pass |
| | | | Front Cylinder Head Tee to | 19 | 120-0555 | 1 | Spring, By-Pass Valve |
| | | 1.1 | Rear Cylinder Head Line - | 20 | 505-0274 | 1 | Plug, Pipe (1/8") Countersunk - |
| | | | Spec A and B | | | | Oil By-Pass |
| 5 | 122-0185 | 1 | Filter, Oil (4-3/8" Long) | 21 | 120-0635 | 1 | Line, Front Cylinder Head Tee |
| 6 | 122-0188 | 1 | Gasket, Adapter | | | | to Rear Cylinder Head |
| 7 | 122-0182 | 1 | Adapter, Oil Filter | | | | Connector - Spec A and B |
| 8 | SENDER, O | IL PRESSU | JRE | 22 | 309-0169 | 1 1 | Switch, Low Oil Pressure - |
| | 193-0108 | 1 | Spec A through AA | | | | Not Used on Pennsylvania |
| | 193-0244 | 1 | Spec AB | | | | Approved Sets |
| | 193-0271 | 1 | Begin Spec AC | 23 | 502-0053 | 1 | Elbow, Street - 45° Brass - |
| 9 | 502-0053 | 2 | Elbow, Street - 45° Brass | | | | Front Cylinder Head - |
| | | | (One Used on Pennsylvania | | | | Spec A and B |
| | | <u> </u> | Approved Sets) | 24 | | CTION PUR | MP TEE TO CYLINDER HEAD TEE |
| 10 | 505-9057 | 1 | Plug, Pipe (1/8") | | 120-0630 | 1 | Spec A and B |
| | | | Pennsylvania Approved Sets | | 120-0697 | 1 | Begin Spec C |
| 11 | 502-0037 | 1 | Elbow, Oil Line to Adapter | 25 | 120-0695 | 2 | Line, Oil - Cylinder Head - |
| 12 | 120-0636 | 1 | Line, Adapter to Injection | | | 40 at 150 | Begin Spec C |
| | randi in | | Pump Tee | 26 | 502-0373 | 1 | Tee, Inverted Flare - |
| 13 | 502-0097 | 1 | Connector, Inverted Male - | | | | Begin Spec C |
| Mr. at | | | Injection Pump Tee to | 27 | CONNECT | OR, INVER | TED MALE - Cylinder Head |
| | | -박-지대 : | Cylinder Head Line | | 502-0281 | 1 | Spec A and B (Rear |
| 14 | 502-0274 | 111 | Connector, Inverted Male - | | | | Cylinder Head) |
| 禁制群 | | | Adapter Line to | | 502-0281 | 2 | Begin Spec C |
| | | | Injection Pump Tee | | | | |
| | | | · 经数据的 医数数 数据 数据 医二氏性 自己 | | MARIE | | 也在這個自然的一個一個一個 |

OIL SYSTEM

| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|-------------|--------------|--|
| | WASHER, LO | OCK - SPI | RING (5/16") |
| 28 | 850-0045 | 2 | Oil Pump Mounting |
| 29 | 850-0045 | 3 | Oil Filter Adapter Mounting |
| | SCREW, CA | P - HEX H | EAD |
| 30 | 800-0030 | 2 | Oil Pump Mounting |
| | | _ | (5/16-18 x 1-1/4") |
| 31 | 800-0028 | 3 | Oil Filter Adapter Mounting (5/16-18 x 1") |
| 32 | 120-0601 | 1 | *Cup, Oil Pump Intake |
| 33 | 120-0602 | 1 | *Bracket, Oil Pump Intake Cup |
| 34 | 800-0025 | 1 | *Screw, Cap - Hex Head (5/16-18 x 5/8") |
| 35 | 850-0045 | 1 | *Washer, Lock - Spring (5/16") |

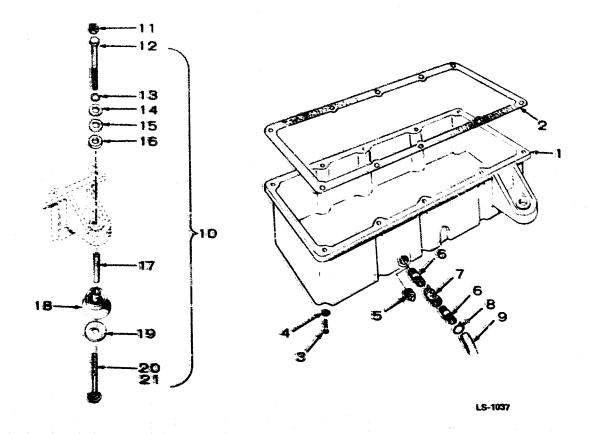
^{- -} Parts Included in 120-0756 Oil Pump Intake Cup Kit.

PISTON AND ROD



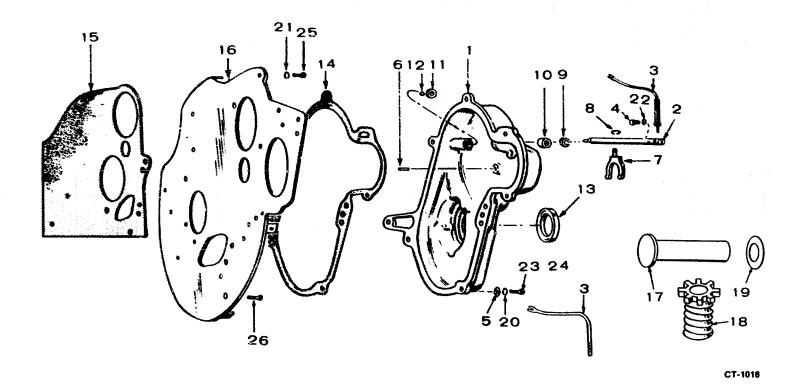
| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|-------------------|--------------|---------------------------------------|
| 1 | RING SET, PI | STON | |
| | 113-0137 | 4 | Standard |
| | 113-0137-05 | 4 | .005" Oversize |
| | 113-0137-10 | 4 | .010" Oversize |
| | 113-0137-20 | 4 | .020" Oversize |
| | 113-0137-30 | 4 | .030" Oversize |
| | 113-0137-40 | 4 | .040" Oversize |
| 2 | PISTON AND | PIN (Inc | ludes Pin Retaining Rings) |
| | 112-0176 | 4 | Standard |
| | 112-0176-05 | 4 | .005" Oversize |
| | 112-0176-10 | 4 | 010" Oversize |
| | 112-0176-20 | 4 | .020" Oversize |
| | 112-0176-30 | 4 | .030" Oversize |
| | 112-0176-40 | 4 | 040" Oversize |
| 3 | 112-0117 | 4 | Pin, Piston |
| 4 | 112-0085 | 8 | Ring, Retaining |
| 5 | 114-0168 | 4 | Rod Assembly, Connecting |
| 6 | DEARING HA | LF, CON | NECTING ROD |
| | 114-0164 | 8 | Standard |
| | 114-0164-02 | 8 | .002" Undersize . |
| | 114-0164-10 | 8 | .010" Undersize |
| | 114-0164-20 | 8 | .020" Undersize |
| | 114-0164-30 | 8 | .030" Undersize |
| 7 | 114-0170 | 8 | Bushing, Piston Pin Connecting Rod |
| 8 | 805-0012 | 8 | Bolt, Place (Special) |

OIL BASE



| REF. | PART NO. | QTY. USED | PART DESCRIPTION | REF. | PART NO. | QTY. | |
|---------|-----------------------|--------------|---------------------------------|--------|-----------------|----------|------------------------------------|
| 1 | BASE, OIL | | | 13 | 850-0055 | 4 | *#‡Washer, Lock - Spring (7/16") |
| | 102-0539 | 1 | Sets Without Oil Base Heater | 14 | 526-0014 | | *#±Washer, Flat (29/64" ID x |
| | 102-0549 | 1 | Sets With Oil Base Heater | | • | | 1-1/2" OD x 1/8" Thk) |
| 2 | 102-0475 | 1 | Gasket, Oil Base | 15 | 526-0198 | 8 | *#‡Washer, Flat (5/8" ID x 1-1/2" |
| 3 | 800-0072 | 10 | Screw, Cap - Hex Head | | | | OD x 1/16" Thk) |
| | | | (7/ 16 -14 × 1-1/4") | | | | (Use as Required) |
| 4 | 850-0055 | 10 | Washer, Lock - Spring (7/16") | 16 | 402-0282 | 4 | *#‡Snubber - Shock Mounting |
| 5 | 505-0056 | . 1 | Plug, Pipe - Square Head (1/2") | 17 | 402-0290 | 4 | *#‡Bushing, Spacer |
| | | | Key 2 Sets Without Skid Base | 18 | CUSHION, \ | /IBRATI | ON |
| 6 | NIPPLE, PIPE | : | | | 402-0285 | 2 | Engine End |
| | 505-0100 | 2 | Close (1/2") Key 1 | | | | Generator End |
| | 505-0002 | 2 | Long (1/2" x 3") Key 2 | | 402-0287 | 2 | Spec A Through Z |
| 4,587% | | | Sets With Skid Base | | 402-0286 | 2 | Begin Spec AA |
| 7 | 504-0011 | 1 | Valve, Oil Drain - Key 1, | 19 | WASHER, F | LAT (29/ | 64" ID x 3-1/4" OD x 1/8" Thk) |
| | | | Key 2 Sets With Skid Base | | Key 2 | | |
| 8 | 503-0197 | 1 | Clamp, Hose - Key 1, | | 526-0195 | 4 | #Sets Without Skid Base |
| | | | Key 2 Sets With Skid Base | | 526-0195 | 3 | ‡Sets With Skid Base |
| 9 | 503-0316 | 1 | Hose, Oil Drain - Key 1, | | 526-0199 | 1 | ‡Sets With Skid Base (Notched) |
| 1111 | | | Key 2 Sets With Skid Base | 20 | 816-0212 | 4 | #Bolt, Carriage (7/16-14 x 5-1/2") |
| 10 | HARDWARE | PACKAC | GE, MOUNTING | | | | Key 2 Sets Without Skid Base |
| | 402-0356 | 4 | Key 1 (Includes Parts Marked 1) | 21 | 800-0082 | 4 | ‡Screw, Cap - Hex Head |
| | | | Key 2 | | | | (7/16-14 x 3-3/4") |
| | 402-0291 | 4 | Sets Without Skid Base | | | | Key 2 Sets With Skid Base |
| or aga | | | (Includes Parts Marked #) | | | | |
| | 402-0327 | 1 | Sets With Skid Base | | | | 56 Mounting Hardware Package |
| -41 Pd- | 建油厂 经卸货 | 1 1 1 1 5 | (Includes Parts Marked ‡) | | | | 91 Mounting Hardware Package |
| 11 | 862-0004 | 4 | #‡Nut, Hex (7/16") Key 2 | ‡ - Pa | rts included in | 1 402-03 | 27 Mounting Hardware Package |
| 12 | 800-0081 | 4 | Screw, Cap - Hex Head | | | | 医电压压 医乳腺性脑炎 絕種數 |
| | | | (7/16-14 x 3-1/2") Key 1 | | | | 温度品 人名斯雷斯巴特尔温斯 斯雷 |
| 4407 | [[[]] [[[[]] [[] | h Hats | | | | | |

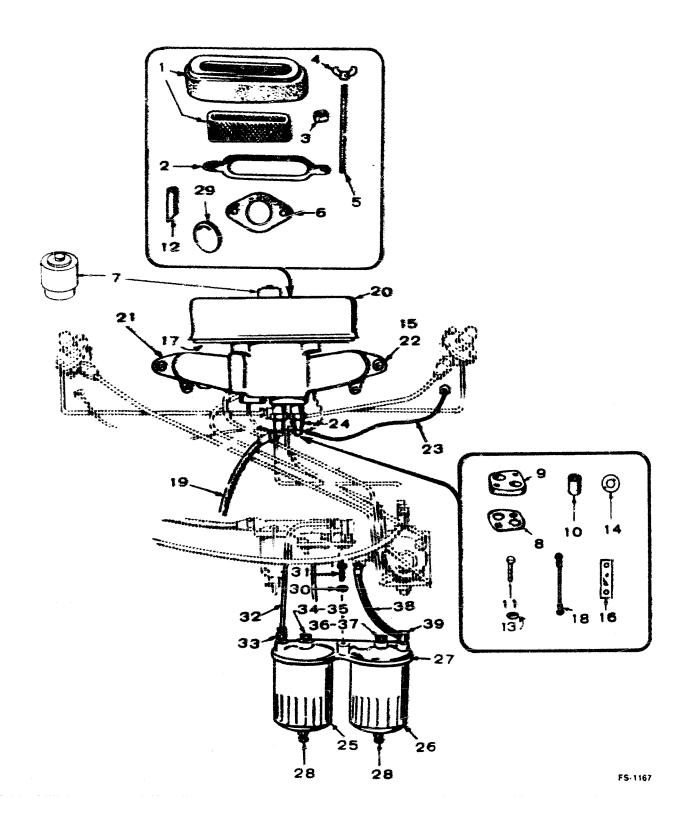
GEARCASE



| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION | REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION | |
|-------------|----------------------|--------------|------------------------------|----------------------------------|-----------------------|--------------|--|--|
| 1 | GEARCASE | ASSEMB | LY (Includes Parts Marked *) | 16 | 103-0521 | 1 | Backplate, Gearcase | |
| | 103-0307 103-0277 | 1 | Key 1 | 17 | 150-1154 | 1 | *Pin, Governor Shaft Hub - | |
| 2 | | VEDNOD | Key 2 | 18 | 150-1160 | • | Key 1 THub, Governor Shaft - | |
| 2 | | VEHNON | Vov. 1 | 10 | 150-1150 | • | • | |
| | 150-0901 | | Key 1 | 40 | 150 1155 | | Key 1 | |
| _ | 150-0838 | .01:00 | Key 2 | 19 | 150-1155 | , | *Washer, Spring - Governor | |
| 3 | ARM, GOVE | HNUH | | | | | Shaft - Key 1 | |
| | 150-1228 | 1 | Key 1 | | - | | RING (5/16") | |
| | 150-1095 | 1 | Key 2 | 20 | 850-0045 | 5 | Gearcase Mounting | |
| 4 | | CHINE - I | HEX HEAD (#8-32 x 1/2") | 21 850-0045 1 Backplate Mounting | | | | |
| | 815-0176 | . 2 | Key 1 | 22 | *WASHER, L | .OCK - SP | RING (#8) | |
| | 815-0176 | 1 | Key 2 | | 850-0025 | 2 | Key 1 | |
| 5 | 526-0115 | 5 | Washer, Flat - Gearcase | | 850-0025 | 1 | Key 2 | |
| | | | Mounting (11/32" ID x | | SCREW, CAP - HEX HEAD | | | |
| | | | 11/16" OD x 1/16" Thk) | 23 | 800-0028 | 1 | Gearcase Mounting | |
| 6 | 516-0111 | 1 | *Pin, Governor Cup Stop | | | | (5/16-18 x 1") | |
| 7 | 150-0777 | . 1 | "Yoke, Governor | 24 | 110-0879 | 4 | Gearcase Mounting (Special) | |
| 8 | 518-0129 | 1 | *Ring, Yoke Retaining | 25 | 800-0026 | 1 | Backplate Mounting | |
| 9 | 509-0088 | 1 | Seal, Governor Shaft | | | | (5/16-18 x 3/4") | |
| 10 | 510-0048 | | *Bearing, Shaft - 1/2" | 26 | 815-0347 | . 2 | Screw, Machine - Flat Head - | |
| 11 | 510-0082 | 1 | *Bearing, Shaft - 1/4" | 20 | | · | Socket Drive (1/4-20 x 1/2") | |
| 12 | 510-0043 | | *Ball, Governor Shaft Thrus! | | | | Backplate Mounting | |
| 13 | 509-0087 | ; | *Seal | | | | and the state of t | |
| | | | Gasket, Gearcase | · Da | de lastudad i | n Gaarcas | e Assemblies. | |
| 14 | 103-0251 | \$ | Jankel, Deallase | - Fa | i io in vidued i | ii Geairas | で へっっていひいてっ. | |

Gasket, Backplate

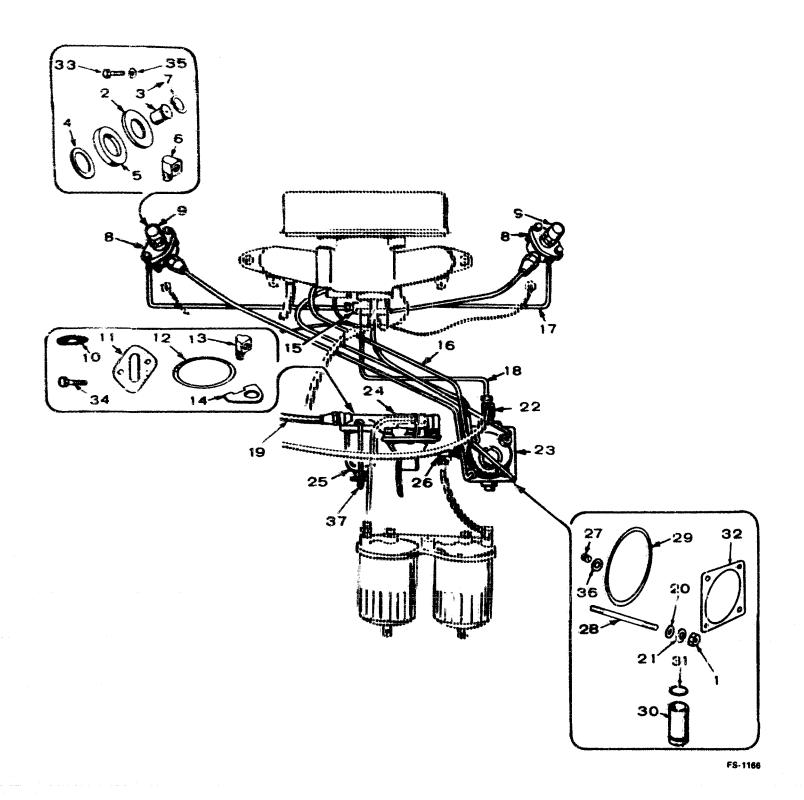
AIR CLEANER AND FUEL FILTERS



AIR CLEANER AND FUEL FILTERS

| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION | REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|-------------|--------------|--|-------------|-------------|--------------|--|
| 1 | 140-0636 | 1 | Element and Petainer, | 23 | LEAD, GLO | W PLUG T | O AIR HEATER |
| | | | Air Cleaner | | 336-1504 | 2 | No. 1 and 4 Cylinders |
| 2 | 140-0584 | 1 | Gasket, Air Cleaner | | | | (12-1/4") |
| 3 | 505-0054 | 1 | Plug, Pipe (1/4") Intake Manifold (Used on Early | | 336-1505 | 2 | No. 2 and 3 Cylinders (5-1/4") |
| | 005 0000 | _ | Models) | 24 | 154-0712 | 2 | Heater, Manifold - Includes |
| 4 | 865-0020 | 2 | Nut, Wing - Air Cleaner | 0.5 | 100 0005 | | Gasket |
| 5 | 520-0621 | 2 | Stud, Air Cleaner | 25 | 122-0325 | 1 | Filter, Fuel - Primary |
| 6 7 | 154-0733 | 2 | Gasket, Intake Manifold | 26 | 122-0326 | • | Filter, Fuel - Secondary |
| 1 | 140-0961 | 1 | Indicator, Restriction - | 27 | 149-1185 | 1 | Adapter, Fuel Filters |
| | 440.0700 | _ | Late Models | 28 | 502-0080 | 2 | Fug. Drain - Fuel Filters |
| 8 | 140-0706 | 1 | Gasket, Manifold Heater Insulator | 29 | 517-0104 | 1 | Plug, Core Hole - Intake Manifold |
| 9 | 140-0705 | . 1 | Plate, Manifold Heater Mounting | 30 | 850-0045 | 3 | Washer, Lock - Spring (5/16") Fuel Filter Adapter Mounting |
| 10 | 508-0103 | 2 | Sleeve, Insulator Manifold Heater Mounting | 31 | 800-0026 | 3 | Screw, Cap - Hex Head (5/16-18 x 3/4") Fuel |
| 11 | 114-0023 | 2 | Screw, Cap - Hex Head (Special) Manifold Heater Mounting | 32 | 149-1189 | 1 | Filter Adapter Mounting Line, Fuel Pump to Primary |
| 12 | 123-0732 | 1 | Tube, Nylon - Breather Hose to Manifold (Spec A and B) | 33 | 502-0003 | 1 | Filter Connector, Primary Fuel |
| 13 | 850-0040 | 2 | Washer, Lock - Spring | | 002 0000 | • | Filter Inlet |
| | | | (1/4") Manifold Heater Mounting | 34 | 526-0068 | 1 | Washer, Flat (29/64" ID x 3/4" OD x 1/16" Thk) |
| 14 | 508-0102 | 2 | Washer, Insulator - Manifold Heater Mounting | 35 | 801-0074 | 1 | Primary Fuel Filter Mounting |
| 15 | STUD, INTA | AKE MANII | | 33 | 901-0014 | • | Screw, Cap - Hex Head (7/16-20 x 1-3/4") |
| 1.5 | 520-0011 | 2 | 5/16" x 1-7/16" | | | | Primary Fuel Filter Mounting |
| | 520-0338 | 2 | 5/16" x 2-7/8" | 36 | 526-0066 | 1 | Washer, Flat (25/64" ID x |
| 16 | 332-0829 | ĩ | Strap, Jumper - Heater | 30 | 320 0000 | • | 9/16" OD x 1-16" Thk) |
| 17 | 140-0595 | i | Pan. Ai. Cleaner | | | | Secondary Fuel Filter |
| 18 | 334-0031 | i | Lead, Jumper - Heater | | | | Mounting |
| 19 | 336-1229 | 1 | Lead - Heater to Solenoid | 37 | 801-0053 | 1 1 | Screw, Cap - Hex Head |
| 1.5 | 300 1223 | • | in Centrol | 3, | 001-0055 | • | (3/8-24 x 1-3/4") Secondary |
| 20 | COVER, A | R CLEANE | • | | | | Fuel Filter Mounting |
| 20 | 140-0594 | ī | Sets Without Restriction | 38 | 501-0129 | 1 | Line, Fuel - Secondary Filter to Injection Pump |
| | 140-1194 | 1 | Sets With Restriction | 39 | 502-0099 | 1 | Elbow, Reducer - Secondary Fuel Filter Outlet |
| 21 | 154-1378 | 1 | Manifold, Intake | | | | |
| 22 | 870-0137 | ż | Nut, Hex (5/16-24) | | | | |
| | | _ | Intake Manifold Mounting | | | | |

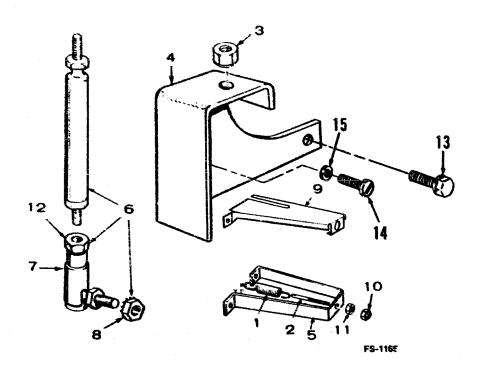
INJECTION SYSTEM



INJECTION SYSTEM

| REF. | PART NO. | QTY. USED | PART DESCRIPTION | REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|------|-------------|--------------|--|-------------|--------------|--------------|---------------------------------|
| 1 | 862-0015 | 4 | Nut. Hex (5/16-18) | 25 | BOWL, FUE | EL PUMP | (Measure for Correct Length) |
| | | | Injection Pump Mounting | | 149-0116 | 1 | 2-3/8" Lg |
| 2 | 147-0043 | 4 | Gasket, Nozzle Heat | | 149-1168 | 1 | #1-5/8" Lg |
| | | | Shield (Asbestos) | 26 | 502-0039 | 1 | Elbow, Inverted Male (90°) |
| 3 | 147-0134 | 4 | Nozzie - Includes Nozzie Gasket | | | | Injection Pump Inlet |
| 4 | 110-0419 | 4 | Gasket - Shield to Head | 27 | BUTTON, I | NJECTIO | N PUMP PLUNGER |
| | | | (Copper) | | 147-0147 | 1 | 1.119 - Marked 1 or A |
| 5 | 147-0044 | 8 | Shield, Nozzle Heat | | 147-0148 | 1 | *.116 - Marked 2 or B |
| | | | (Steel) | | 147-0149 | 1 | .113 - Marked 3 or C |
| 6 | ELBOW, NO | ZZLE (Fu | el Return Line) | | 147-0150 | 1 | .110 - Marked 4 or D |
| | 502-0065 | 2 | Inverted (45°) | | 147-0151 | 1 | .107 - Marked 5 or E |
| | 502-0002 | 2 | Inverted (90°) | | 147-0161 | 1 | 104 - Standard Marked 11 |
| 7 | 147-0243 | 4 | Gasket, Nozzle | | | - | or No Mark |
| 8 | 147-0141 | 4 | Flange, Injection Nozzle | | 147-0152 | 1 | .101 - Marked 6 or F |
| _ | | | Hold Down | | 147-0153 | 1 | .098 - Marked 7 or H |
| 9 | 147-0136 | 4 | Nozzie and Holder Assembly | | 147-0154 | 1 | .095 - Marked 8 or J |
| 10 | 149-0463 | 1 | #Screen, Fuel Pump | | 147-0155 | i | .092 - Marked 9 or K |
| 11 | 149-0792 | 1 | #Gasket, Fuel Pump Mounting | | 147-0156 | 1 | .089 - Marked 10 or L |
| 12 | 149-0517 | 1 | #Gasket, Fuel Pump Bowl | | 147-0190 | 1 | 1.122 - Marked 12 or M |
| 13 | 502-0002 | ż | Elbow, Inverted (90°) Fuel | | 147-0189 | i | *.125 - Marked 13 or N |
| ,,, | | _ | Pump Inlet and Outlet | | 147-0188 | i | .128 - Marked 14 or P |
| 14 | 149-1307 | 2 | #Stiffener, Fuel Pump Mounting | | 147-0187 | i | 131 - Marked 15 or R |
| 15 | 502-0245 | ĩ | Tee - Return Lines | | 147-0186 | i | .134 - Marked 16 or S |
| 16 | | • | imp to Nozzle) Includes Fitting | 28 | 520-0129 | 4 | Stud, Injection Pump Mounting |
| | 149-1150 | 1 | No. 1 Cylinder | 29 | 509-0094 | 1 | 'Seal, O-Ring - Injection Pump |
| | 149-1151 | i | No. 2 Cylinder | | | • | to Crankcase |
| | 149-1152 | i | No. 3 Cylinder | 30 | 147-0182 | 1 | *Tappet, Injection Pump |
| | 149-1153 | i | No. 4 Cylinder | 31 | 147-0196 | 1 | *Gasket, O-Ring - Injection |
| 17 | LINE, NOZZ | - | | | | • | Pump Tappet |
| • • | 149-1060 | 1 | No. 1 Cylinder | 32 | 147-0145 | 1 | Shim Kit, Injection Pump |
| | 149-1059 | 2 | No. 2 and 3 Cylinders | | | • | Mounting |
| | 149-1061 | ī | No. 4 Cylinder | 33 | 114-0171 | 8 | Screw, Cap - Hex Head |
| 18 | 149-1062 | 1 | Line, Fuel Return Tee to | - | | • | (5/16-18 x 2") Nozzle and |
| | 110 1002 | . • | Injection Pump | | | | Holder Mounting |
| 19 | 501-0007 | 2 | Line, Fuel - Fuel Pump Inlet | 34 | 802-0054 | 2 | #Screw, Cap - Socket Head |
| ,, | | - | and Fuel Return | • | | • | (5/16-18 x 7/8") |
| 20 | 526-0022 | 4 | Washer, Flat (21/64" ID x | | | | Fuel Pump Mounting |
| | 000 0000 | • | 9/16" OD x 1/16" Thk) | 35 | 526-0122 | 8 | Washer, Flat (11/32" ID x |
| | | | Injection Pump Mounting | | 0 | • | 23/32" OD x 10 Gauge Thk) |
| 21 | 850-0045 | . 4 | Washer, Lock - Spring (5/16") | | | | Nozzle and Holder Mounting |
| 21 | 050-00-15 | | Injection Pump Mounting | 36 | 147-0259 | 1 | *Ring, Retaining - Timing Butto |
| 22 | 147-0183 | 1 | 'Valve, Bleeder | 37 | | PLIMP BO | DWL (Measure for Correct Length |
| 23 | 147-0232 | 1 | Pump Kit, Injection (Includes | 0. | 149-1006 | 1 | 3-5/8" Lg |
| 20 | 141-0202 | • | Governor Ball Joint, Nut and Parts Marked *) | | 149-1169 | i | #2-7/8" Lg |
| 24 | 149-1704 | | Pump Kit, Fuel (Includes | * - Pa | rts included | in 147-023 | 2 Injection Pump Kit. |
| *** | -70 1107 | • | Parts Marked #) | | | | 4 Fuel Pump Kit. |
| | 149-1046 | 1 | Repair Kit, Fuel Pump | | | | |
| | | | (Includes Diaphragm and | | | | |
| | | | Gaskets) | | | | |
| | | | | | | | |

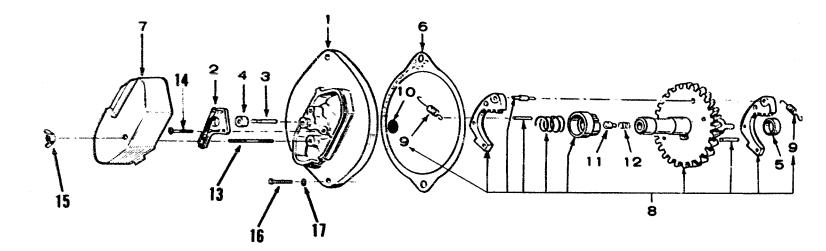
GOVERNOR



| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|-------------|--------------|--|
| 1 | 150-1084 | 1 | Spring, Governor |
| 2 | 150-1082 | 1 | Stud, Governor Adjusting |
| 3 | 862-0011 | 1 | Nut, Hex (Special) Key 1 |
| 4 | 150-1105 | 1 | Bracket, Governor - Key 1 |
| 5 | 150-1103 | 1 | Bracket, Governor, Key 2 |
| 6 | 150-1132 | 1 | Linkage Assembly, Governor - Includes Parts Marked * |
| 7 | JOINT, BALL | | THE TOTAL PROPERTY OF THE PROP |
| | 150-1358 | 1 | *Governor Linkage |
| | 150-0939 | . 1 | Injection Pump (Included With Injection Pump) |
| 8 | 870-0131 | 2 | *Nut, Hex - With ET (#10-32) (1 Nut Included With Injection Pump) |
| 9 | 150-0823 | 1 . | Cover, Governor Spring Control - Key 2 |
| 10 | 870-0133 | 1 | Palnut, Locking (3/8-16) Key 2 |
| 11 | 862-0003 | 1 | Nut, Hex (3/8-16) Key 2 |
| 12 | 871-0010 | 2 | *Nut, Hex (#10-32) Brass |
| 13 | 821-0018 | 1 | Screw, Hex Locking Head (Flange) (1/4-20 x 5/8") Key 1 |
| 14 | 814-0151 | 1 | Screw, Machine - Flat Head (1/4-20 x 3/4") Key 1 |
| 15 | 855-0011 | 1 | Washer Lock - ET Countersunk (1/4") Key 1 |

⁻ Parts Included in 150-1132 Governor Linkage Assembly.

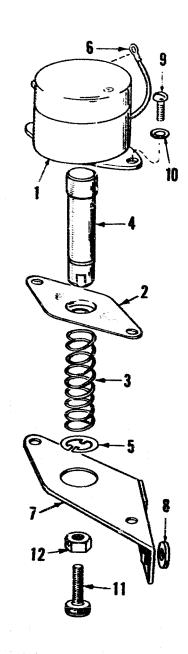
START DISCONNECT



Y88-113

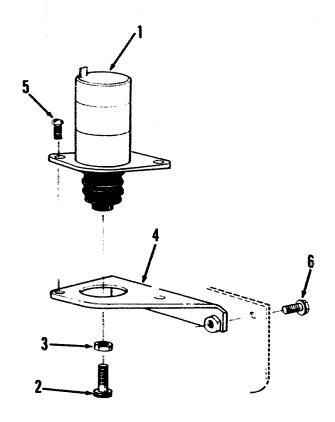
| REF. | PART NO. | QTY. USED | PART DESCRIPTION |
|------|-------------|--------------|--|
| | 140. | USED | DESCRIPTION |
| 1 | 191-0496 | 1 | Plate |
| 2 | 309-0134 | 1 | Switch Assembly (Includes Leads) |
| 3 | 309-0152 | 1 | Plunger, Switch |
| 4 | 160-0382 | 1 | Diaphragm, Switch Plunger |
| 5 | 160-0720 | 1 | Spacer, Switch Plate |
| 6 | 160-0721 | 1 . | Gasket, Plate |
| 7 | 191-0392 | 1 | Cover, Switch Plate |
| 8 | 191-0388 | 1 | Control Assembly, Switch |
| 9 | 160-0711 | 2 | Spring, Weight (Included in Switch Control Assembly) |
| 10 | 160-0806 | 1 | Disc, Thrust Plunger |
| 11 | 160-0774 | 1 | Plunger, Thrust |
| 12 | 160-0773 | 1 | Spring, Thrust Plunger |
| 13 | 520-0347 | 1 | Stud, Plate Cover (Special) |
| 14 | 815-0201 | 2 | Screw, Machine - Brass - Round Head with ET (#8-32 x 3/8") |
| 15 | 865-0011 | 1 | Nut, Wing (#10-32) |
| 16 | 800-0051 | 2 | Screw, Cap - Hex Head (3/8-16 x 1-1/4") |
| 17 | 850-0050 | 2 | Washer, Lock - Spring (3/8") |

STOP SOLENOID (SPEC A THROUGH AC)



| REF. NO. | PART QTY. NO. USED | | PART DESCRIPTION | | | | |
|-------------|-----------------------|---|---|--|--|--|--|
| 1 | 307-0628 | 1 | Solenoid, Stopping | | | | |
| 2 | 306-0162 | 1 | Retainer, Solenoid Plunger | | | | |
| 3 | 306-0161 | 1 | Spring, Solenoid Plunger | | | | |
| 4 | 306-0159 | 1 | Plunger, Solenoid | | | | |
| 5 | 518-0203 | 1 | Ring, Snap - Spring Retaining | | | | |
| 6 | 336-0706 | 1 | Lead, Solenoid Ground | | | | |
| 7 | 306-0158 | 1 | Bracket, Solenoid Mounting | | | | |
| 8 | 526-0180 | 1 | Spacer, Solenoid Bracket Mounting | | | | |
| 9 | 812-0148 | 2 | Screw, Round Head Machine (1/4-20 x 1/2") | | | | |
| 10 | 850-0040 | 2 | Washer, Lock - Spring (1/4") | | | | |
| 11 | 306-0242 | 1 | Screw, Brass - Solenoid Plunger | | | | |
| 12 | 862-0001 | 1 | Nut. Hex (1/4-20) | | | | |

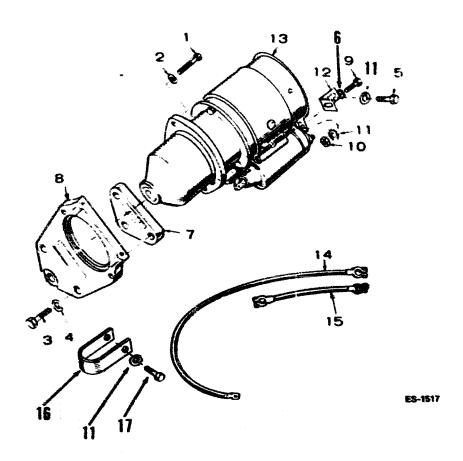
STOP SOLENOID (BEGIN SPEC AD)



ES-1395

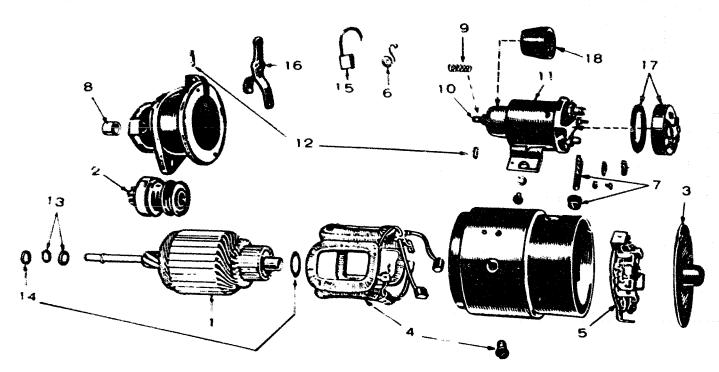
| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|----------------------------|--------------|--|
| 1 | 307-1904 | 1 | Solenoid, Stop |
| 2 | 306-2256 | 1 | Screw, Solenoid Adjust |
| 3 | 862-0001 | 1 | Nut, Hex (1/4-20) |
| 4 | BRACKET, SC | LENOI | |
| | 306-2254 | 1 | Radiator Cooled Sets |
| | 306-2979 | 1 | City Water Cooled Sets |
| 5 | 821-0010 | 2 | Screw, Hex Locking Head (Flange) (1/4-20 x 1/2") |
| 6 | SCREW, HEX (1/4-20 x 5/8") | | G HEAD (FLANGE) |
| | 821-0018 | 1 | Radiator Cooled Sets |
| | 821-0018 | 2 | City Water Cooled Sets |

STARTER (SPEC A THROUGH AC)



| REF. NO. | PART NO. | QTY. PART USED DESCRIPTION | | | |
|-------------|-------------|----------------------------|--|--|--|
| 1 | 800-0051 | 2 | Screw, Cap - Hex Head (3/8-16 x 1-1/4") | | |
| 2 | 850-0050 | 2 | Washer, Lock - Spring (3/8") | | |
| 3 | SCREW, CA | P - HEX H | EAD | | |
| | 800-0053 | 1 | 3/8-16 x 1-3/4" | | |
| | 800-0054 | 2 | 3/8-16 x 2" | | |
| 4 | 850-0950 | 3 | Washer, Lock - Spring (3/8") | | |
| 5 | 800-0052 | 1 | Screw, Cap - Hex Head (3/8-16x 1-1/2") | | |
| 6 | 526-0026 | 1 | Washer, Flat (13/32" ID x 3/4" OD x 1/16" Thk) | | |
| 7 | 191-0311 | 1 | Spacer, Starter | | |
| 8 | 191-1190 | 1 | Flange, Starter | | |
| 9 | 300-0046 | 1 | Screw, Cap - Hex Head (3/8-16 x 1/2") | | |
| 10 | 864-0003 | 1 | Nut, Hex (3/8-16) | | |
| 11 | 856-0010 | 3 | Washer, Lock - EIT (3/8") | | |
| 12 | 191-0365 | 1 | Bracket, Starter | | |
| 13 | 191-0324 | 1 | Starter (See Separate Group for Components) | | |
| 14 | CABLE, BAT | TTERY | | | |
| | 416-0021 | 2 | Sets Without Skid Base (20-1/2") | | |
| | 416-0037 | 2 | Sets With Skid Base (48") | | |
| 15 | 416-0133 | 1 | Cable Battery Jumper | | |
| 16 | 416-0096 | 1 | Clamp, Battery Cable | | |
| 17 | 800-0047 | 1 | Screw, Cap - Hex Head | | |

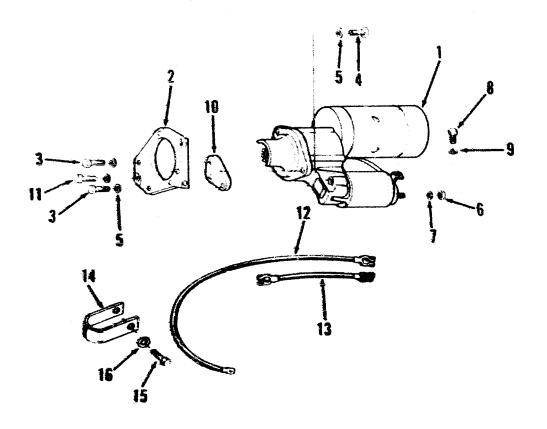
STARTER PARTS (SPEC A THROUGH AC)



ES-10

| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION | REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-----------------|----------------------|--------------|---|-------------|-------------|--------------|---|
| | 191-0324 | 1 | Starter | 11 | 191-0433 | 1 | Switch, Solenoid |
| 1 | 191-0712 | 1 | Armature | 12 | 191-1029 | 1 | Yoke Parts Package |
| 2 | 191-0432 | 1 | Clutch | 13 | 191-1030 | 1 | Stop and Lock Ring Package. |
| 3 | 191-1023 | 1 | Head Assembly. Commutator End | | | | Pinion |
| 4 <u>.</u> 5 | 191-1024 191-1025 | 1 | Coil Package, Field Plate Assembly, Brush | . 14 | 191-1031 | 1 | Thrust Washer Package, Armature (Use as Required) |
| | 191-1020 | | Spring Set, Brush (Set of 4) | 15 | 191-0434 | 1 | Brush Set, Service |
| 6 | | • | | 16 | 191-1032 | 1 | Yoke |
| 7 | 191-1263 | 1 | Connector Package | | | | 1 - 11 - 1 |
| 8 | 191-0497 | 1 | Bearing (Bronze), Drive End | 17 | 191-1569 | 1 | Switch Cover and Stud Package |
| 9 | 191-1027 | 1 | Spring, Plunger | 18 | 191-1134 | . 1 | Boot, Rubber - Part of Moving |
| 10 | 191-1028 | 1 | Core Assembly, Moving | | | | Core Assembly |

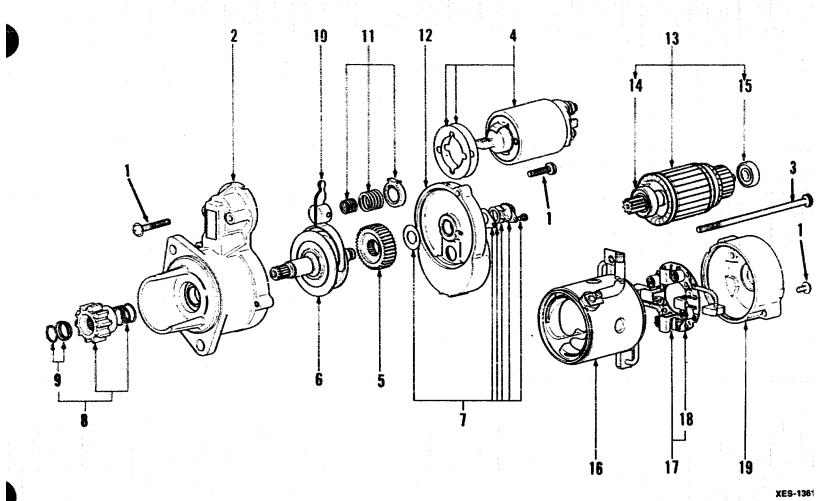
STARTER (BEGIN SPEC AD)



ES-1518

| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION | | | |
|-------------|-------------|--------------|--|--|--|--|
| | 191-1399 | 1 | Starter (Includes Parts Marked *) See Separate Group for Components | | | |
| 2 | 191-1400 | 1 | Flange, Starter Mounting | | | |
| 3 | 800-0054 | 2 | Screw, Cap - Hex Head (3/8-16 x 2") | | | |
| 4 | 800-0051 | 2 | Screw, Cap - Hex Head (3/8-16 x 1-1/4") | | | |
| 5 | 850-0050 | 5 | Washer, Lock - Spring (3/8") | | | |
| 6 | 860-2006 | 1 1 | 'Nut, Hex (M8) 8+ Terminal | | | |
| 7 | 850-2008 | 1 | *Washer, Lock - Spring M8 B+ Terminal | | | |
| 8 | 800-2000 | 1 | *Screw, Cap - Hex Head (M5 x 8 MM) Solenoid Terminal | | | |
| 9 | 850-2005 | 1 | *Washer, Lock - Spring (M5) Solenoid Terminal | | | |
| 10 | 191-0311 | 1 1 | Spacer, Flange | | | |
| 11 | 800-0053 | 1 . | Screw, Cap - Hex Head (3/8-16 x 1-3/4") | | | |
| 12 | CABLE, BA | TTERY | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
| | 416-0021 | 2 | Sets Without Skid Base (20-1/2") | | | |
| | 416-0037 | 2 | Sets With Skid Base (48") | | | |
| 13 | 416-0133 | 1 | Cable, Battery Jumper | | | |
| 14 | 416-0096 | 1 | Clamp, Battery Cable | | | |
| 15 | 800-0047 | 1 | Screw, Cap - Hex Head (3/8-16 x5/8") | | | |
| 16 | 856-0010 | 1 | Washer, Lock - EIT (3/8") | | | |

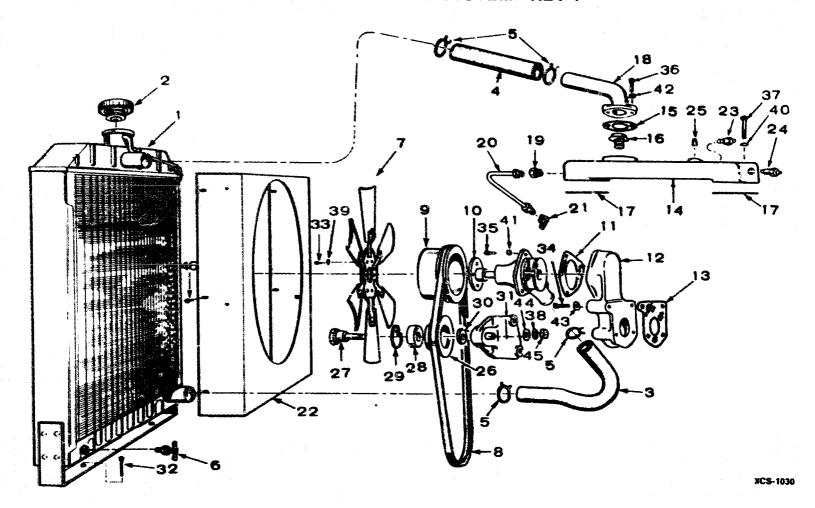
STARTER PARTS (BEGIN SPEC AD)



- Parts Included in 191-1434 Brush Holder Assembly

QTY. **PART** REF. **PART DESCRIPTION** NO. NO. **USED** 191-1399 Starter 1 **Screw Set** 191-1450 **Bracket, Front - Includes** 2 191-1479 1 **Bearing** 3 **Bolt Set** 191-1431 **Switch** 191-1486 191-1446 Gear 191-1482 Clutch 191-1444 **Cover Set Pinion Set (Includes** 8 191-1483 Parts Marked ') 191-1442 *Stopper Set 9 Lever 10 191-1484 191-1440 **Spring Set** 11 Bracket, Center 191-1439 12 **Armature Assembly (Includes** 191-1438 13 Parts Marked #) #Bearing, Center 14 191-1437 1 #Bearing, Rear Yoke - Includes Pole 15 191-1436 1 191-1485 1 Shoes, Field Coil and **Positive Brushes** 1 Holder Assembly, Brush 191-1434 17 (Includes Negative Brushes and Parts Marked ‡) ‡Spring, Brush 191-1433 18 191-1432 Bracket, Rear 19 - Parts Included in 191-1483 Pinion Set - Parts Included in 191-1438 Armature Assembly

RADIATOR COOLING SYSTEM - KEY 1

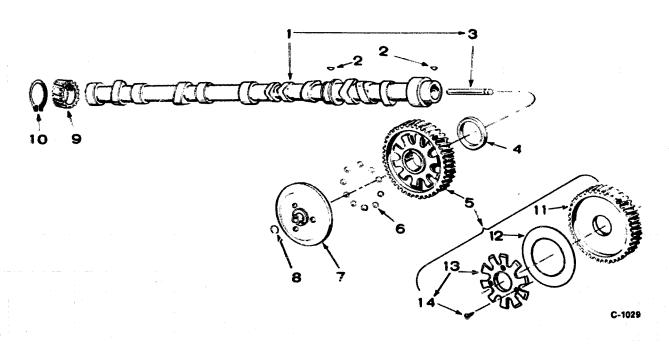


| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION | REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|-------------|--------------|--|-------------|-------------|--------------|------------------------------|
| 1 | RADIATOR | | | 15 | 131-0140 | 1 | Gasket, Water Outlet Elbow |
| | 130-0569 | * | Spec A through AB | 16 | 309-0054 | i | Thermostat |
| | 130-1551 | 1 | Begin Spec AC | 17 | 309-0145 | 2 | Gasket, Water Outlet Housing |
| 2 | CAP, RADIA | TOR | | 18 | 131-0138 | 1 | Elbow, Water Outlet |
| | 130-0553 | 1 | Spec A through AB | 19 | 502-0036 | 1 | Connector, Inverted Male - |
| | 130-1672 | 1 | Begin Spec AC | | | - | By-Pass Line to Housing |
| 3 | HOSE, LOW | ER RADIA | NTOR | 20 | 130-0592 | 1 | Line, Water By-Pass |
| | 503-0204 | 1 | Spec A through AB | 21 | 502-0043 | 1 | Elbow, Inverted Male - |
| | 503-1049 | 1 | Begin Spec AC | | | | By-Pass Line to Pump |
| 4 | 503-0400 | 1 | Hose, Upper Radiator | 22 | 130-1673 | 1 | Shroud, Fan - Begin Spec AC |
| 5 | 503-0129 | 4 | Clamp, Radiator Hose | 23 | 309-0179 | 1 | Switch, High Temperature |
| 6 | 504-0003 | 1 | Valve, Radiator Drain | | | | Cut-Off (Not Used on |
| 7 | FAN, RADIA | TOR | | | | | Pennsylvania Approved Sets) |
| | 130-0343 | 1 | Spec A through AB | 24 | SENDER, W | ATER TER | MPERATURE |
| | | | (4 Blades) | | 193-0104 | 1 . | Spec A through AA |
| | 130-1552 | | Begin Spec AC (6 Blades) | | 193-0246 | 1 | Begin Spec AB |
| 8 | BELT, FAN | | and the state of the state of the state of | 25 | PLUG, SQU | ARE HEAD |) - Water Outlet Housing |
| | 511-0066 | 1 | Spec A through AB | | 505-0110 | 1 | 3/8" (Pennsylvania Approved |
| | 511-0101 | 1 | Begin Spec AC | | | | Sets Use 2) |
| 9 | 512-0039 | 1 | Pulley, Water Pump | | 505-0054 | 1 | 1/4" Used on Early Models |
| 10 | 132-0133 | 1 | Pump, Water | 26 | 130-0557 | 1 | Pulley, Idler |
| | 132-0082 | 1 | Repair Kit, Water Pump | 27 | 130-0556 | ······ | Shaft, Idler Pulley |
| | | | (Includes Shaft and Bearing, | 28 | 510-0025 | 1 | Bearing, Ball |
| | | | Impeller, Fan Hub, Seal and | 29 | 518-0210 | 1 | Ring, Snap |
| -11.1 | | | Mounting Gasket) | 30 | 130-0560 | 1 | Spacer, Idler Pulley |
| 11 | 132-0072 | 1 1 | Gasket, Water Pump Mounting | 31 | 130-0680 | 1 | Bracket, Idler Pulley |
| 12 | 131-0186 | 1 | Housing, Water Pump | 32 | 816-0152 | 2 | Bolt, Carriage (3/8-16 x 2") |
| 13 | 131-0139 | 1 | Gasket, Water Pump Housing | | | | Radiator to Radiator |
| 14 | 131-0137 | | Housing, Water Outlet Cylinder Head | | | | Mounting Support |

RADIATOR COOLING SYSTEM - KEY 1

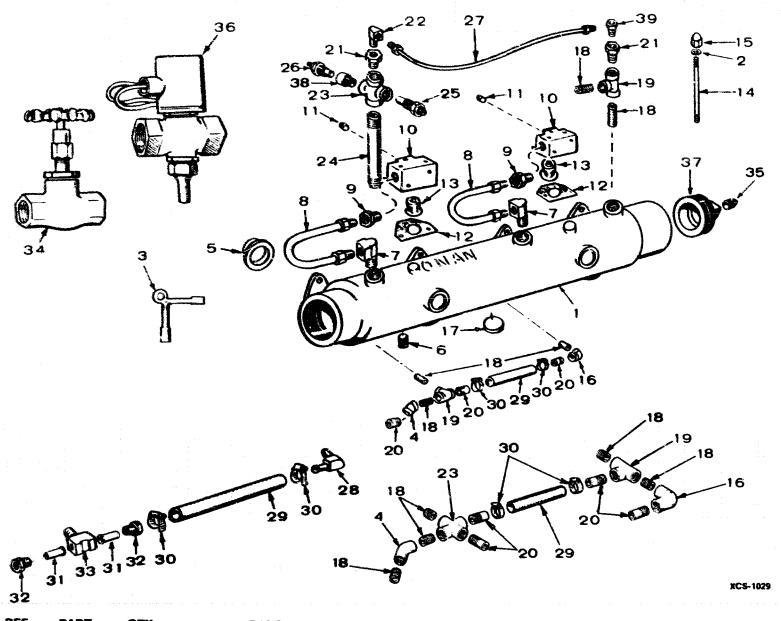
| REF. | PART NO. | QTY. USED | PART DESCRIPTION | REF. | PART NO. | QTY. USED | PART DESCRIPTION |
|------|-------------|--------------|---|------|-------------|--------------|--|
| | SCREW, CAP | - HEX H | | | WASHER, F | | |
| 33 | 800-0029 | 4 | 5/16-18 x 1-1/8" - Fan and Pulley Mounting | 41 | 526-0065 | 3 | 21/64" ID x 9/16" OD x 1/16" Thk - Water Pump |
| 34 | 800-0064 | 2 | 3/8-16 x 4-1/2" - Water | | | | Mounting |
| | | | Pump Housing Mounting | 42 | 526-0665 | 2 | 21/64" ID x 9/16" OD x |
| | 800-0057 | 2 | 3/8-16 x 2-3/4" - Water Pump Housing Mounting | | | | 1/16" Thk - Water Outlet Elbow Mounting |
| 35 | 800-0027 | 2 | 5/16-18 x 7/8" - Water Pump Mounting | 43 | 526-0066 | 4 | 25/64" ID x 9/16" OD x 1/16" Thk - Water Pump |
| | 800-0031 | 1 | 5/16-18 x 1-1/2" - Water Fump Mounting | 44 | 526-0219 | 1 | Housing Mounting Washer, Flat (Steel) |
| 36 | 800-0030 | 2 | 5/16-18 x 1-1/4" - Water Outlet Elbow Mounting | | 020-0213 | • | 17/32" ID x 1" OD x 1/8" Thk - |
| 37 | 800-0034 | 4 | 5/16-18 x 2-1/4" - Water Outlet Housing Mounting | 45 | 110-0707 | 1 | Nut, Hex (Special) Idler Pulley Mounting |
| | WASHER, LO | CK - SPF | | 46 | 815-0531 | 6 | Screw, Hex Head Washer |
| 38 | 850-0060 | 1 | 1/2" - Idler Puller Mounting | | | • | (#8-32 x 3/8") - Shroud to |
| 39 | 850-0045 | 4 | 5/16" - Fan and Pulley Mounting | | | | Radiator |
| 40 | 850-0045 | 4 | 5/16" - Water Outlet Housing Mounting | | | | |

CAMSHAFT



| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION | REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|-------------|--------------|--------------------------------|-------------|--------------|--------------|---------------------------------|
| 1 | 105-0274 | 1 | Camshaft (Includes Center Pin) | 10 | 518-0195 | .1 | Ring, Injection Pump Drive Gear |
| . 2 | 515-0001 | 2 | Key - Camshaft Gear and | 11 | 105-0465 | 1 | "#Gear, Camshaft |
| | | | Injection Pump | 12 | 150-0773 | 1 | *#Plate, Governor Flyball |
| 3 | 150-0075 | 1 | Pin, Camshaft Center | 13 | 150-1842 | 1 | *#Spacer Kit, Governor |
| 4 | 105-0205 | 1 | Washer, Thrust | | | | Flyball (Includes Mounting |
| 5 | 105-0218 | 1 | Gear Assembly, Camshaft | | | | Screws) |
| | | | (Includes Parts Marked *) | 14 | 815-0506 | 3 | *Screw, Spacer Mounting |
| 6 | 510-0046 | 10 | Flyball, Governor | | | 1.5 | (Special) |
| 7 | 150-0775 | 1 | Cup. Governor | | | 1 1 | |
| 8 | 150-0078 | 1 | Ring, Center Pin | - Pa | rts included | in 105-02 | 18 Camshaft Gear Assembly. |
| 9 | 147-0142 | 1 | Gear, Injection Pump Drive | # - Ca | | Assembl | ies With Rivets Order 105-0218 |

CITY WATER COOLING SYSTEM - KEY 2



| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION | REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|------------------------|---|--|-------------|-------------|-------------------|--|
| 1 | 154-2124 | 1 | Manifold Assembly, Exhaust - | 10 | 309-0160 | 2 | Cover, Thermostat |
| | | | Water Cooled (Includes Parts Marked *) | 11 | 505-0274 | 2 | Plug, Pipe (1/8") Countersunk - Thermostat Cover |
| 2 | 52 6 -0022 | 4 | Washer, Flat (21/64" ID x | 12 | 309-0145 | 2 | Gasket, Thermostat Cover |
| | | | 9/16" OD x 1/16" Thk) | 13 | 309-0130 | 2 | Thermostat |
| 3 | 504-0020 | | Key, Valve (Used on Early Style Valve) | 14 | 520-0143 | 4 | Stud, Thermostat Cover Mounting |
| 4 | 505-0376 | 1 | Elbow, Pipe (45°) | 15 | 869-0002 | 4 | Nut, Acom (5/16-24) |
| 5 | 154-1057 | 4 | Gasket, Exhaust Manifold | | | | Thermostal Cover |
| - 6 | PLUG, PIPE 505-0110 | (3/6") - E | thaust Manifold Square Head (Bottom | 16 | 505-0039 | 1 | Elbow, Pipe 90° (3/8" x 1") - Water Inlet |
| 1000 | ta garang s | | Mounted) | 17 | "PLUG, EXH | AUST MAN | NIFOLD |
| | 505-0266 | 5 S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | "Countersunk Head (Top | | 517-0041 | 4 | Expansion (1-1/8" OD) |
| | | en la | Mounted) - Sets With Heat | | 517-0059 | 1 | Welch (1-7/16" OD) |
| | | | Exchanger | 18 | NIPPLE, CL | OSE - PIPI | E (3/8" x 1") |
| 7 | Line Inter | ERTED M | ALE (Manifold Water | | 505-0101 | 5 | Sets Without Water Jacket Heater |
| | 502-0074 | 2 | Sets Without Heat Exchanger | | 505-0101 | ., 7 . • , | Sets With Water Jacket Heater |
| | 502-0074 | | Sets With Heat Exchanger | 19 | 505-0060 | 2 | Tee, Pipe (3/8") - Water Inlet |
| 8 | 130-0510 | 2 | Line, Water - Thermostat | | | | and Exhaust Manifold |
| | | | Cover to Manifold | 20 | NIPPLE, HA | LF - PIPE | (3/8" x 1-1/2") - Water Inlet |
| 9 | 502-0103 | 2 | Connector, Inverted Male - Thermostat Cover Outlet | | 505-0135 | 3 | Sets Without Water Jacket Heater |
| | | | | | 505-0135 | 4 | Sets With Water Jacket Heater |

CITY WATER COOLING SYSTEM - KEY 2

| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION | REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|-------------|--------------|-------------------------------|-------------|-------------|--------------|------------------------------------|
| 21 | BUSHING. | REDUCER | - PIPE - By-Pass Line | 29 | HOSE, WAT | TER INLET | |
| | 505-0016 | 2 | Sets Without Heat Exchanger | | 503-0394 | 1 | Used With Brass Fittings |
| | 505-0016 | 1 | Sets With Heat Exchanger | | | | (1/2" x 9-5/8") |
| 22 | 502-0037 | 1 | Elbow, Brass - By-Pass Line | | 503-0478 | 1 | Used With Pipe Fittings |
| 23 | CROSS, PI | PE (3/8") | • | | | | (3/4" × 9") |
| | 505-0475 | 1 | Sets Without Water Jacket | 30 | 503-0183 | 2 | Clamp, Water Inlet Hose |
| | | | Heater (Water By-Pass Line) | 31 | 130-0533 | 2 | Adapter, Water Inlet Hose |
| | 505-0475 | 2 | Sets With Water Jacket Heater | | | | (Used on Early Models) |
| | | | (Water By-Pass Line and | 32 | 502-0239 | 2 | Nut, Inverted (Brass) Water |
| | | | Water Inlet) | | | | Inlet (Used on Early Models) |
| 24 | 505-0224 | 1 | Nipple, Pipe (3/8" x 4-1/2") | 33 | 502-0247 | 1 | Tee, Male Branch (Brass) |
| 25 | 309-0178 | 1 | Switch, High Water Temper- | | | | Water Inlet (Used on Early |
| | | | ature (Not Used on Pennsyl- | | | | Models) |
| | | | vania Approved Sets) | 34 | 504-0019 | 1 | Valve, Globe |
| 26 | SENDER, 1 | WATER TEN | MPERATURE | 35 | 502-0080 | 1 | Plug, Square Head (Brass) - |
| | 193-0104 | 1 | Spec A through AA | | | | (1/8") Used on Early |
| | 193-0246 | 1 | Begin Spec AB | | | | Models |
| 27 | LINE, WAT | ER BY-PAS | S | 36 | 307-0833 | 1 | Valve, Solenoid |
| | 130-0633 | 1 | Sets Without Heat Exchanger | 37 | 505-0402 | 1 | Plug, Pipe - Square Head |
| | 130-0813 | 1 | Sets With Heat Exchanger | | | | (1-1/2") - Begin Spec B |
| 28 | 502-0237 | 1 | Elbow, Brass - Water Inlet | 38 | 309-0081 | 1 | Extension, Pipe |
| | | | (Used on Early Models) | 39 | 502-0097 | 1 | Connector, Brass - By-Pass Line |

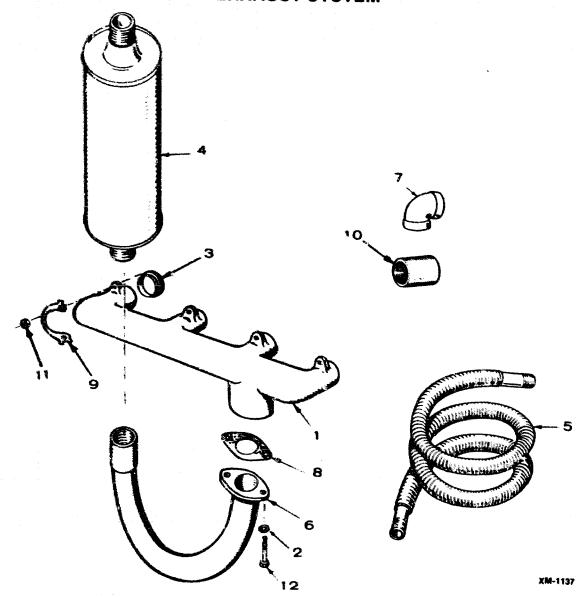
^{* -} Parts Included in 154-2124 Exhaust Manifold Assembly.

WATER PUMP PARTS (KEY 2)

| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION | |
|-------------|-------------|--------------|--|--|
| | 132-0110 | 1 | Pump, Water | NOTE: This pump used on sets with optional heat exchanger. |
| | REPAIR KI | T. WATER | PUMP | |
| | 132-0241 | 1 | Sets With Flat Area on Shaft (Includes Water Pump Pulley, Set Screw, Key and Parts Marked *) | |
| | 132-0240 | 1 | Sets With Keyed Area on Shaft (Includes Parts Marked #) | , |
| . 1 | | 1 | Body, Pump (Not Sold Separately) | 7 |
| 2 | 132-0137 | 1 | Cover, Pump | |
| 3 | 132-0114 | 1, | *#Impeller | 12 1413 15 4 |
| 4 | 132-0101 | 1 | *#Seal | |
| 5 | 132-0091 | 1 | *#Face, Wear | |
| 6 | 132-0092 | 1 | *#Seat, Seal | |
| 7 | 132-0112 | 1 | *#Gasket. Cover | |
| 8 | 132-0113 | 6 | *#Screw, Cover | |
| 9 | 132-0138 | 1 | Screw, Cap - Used on Early Style Pumps | |
| 10 | 132-0139 | 1 | Lockwasher - Used on Early Style Pumps | |
| 11 | 132-0140 | 1 | Nut. Hex - Used on Early Style Pumps | |
| 12 | 132-0141 | 1 | Plug, Drain - Used on Early Style Pumps | 9 10 11 |
| 13 | | 1 | Pedestal (Not Sold Separately) | |
| 14 | SHAFT AN | D BEARIN | IG ASSEMBLY | |
| | 132-0239 | 4 | *Sets With Flat Area on Shaft (Repair Kit - Also Includes Water Pump Pulley, Set Screw and Key) | - ** · · · · · · · · · · · · · · · · |
| | 132-0225 | 1 1 | #Sets With Keyed Area on Shaft | |
| 15 | 132-0132 | 1 | Ring, Snap | 机设置 医电子管 医多类性 医二甲基苯甲醇 |
| 16 | 132-0224 | 1 | Slinger, Fiber | |

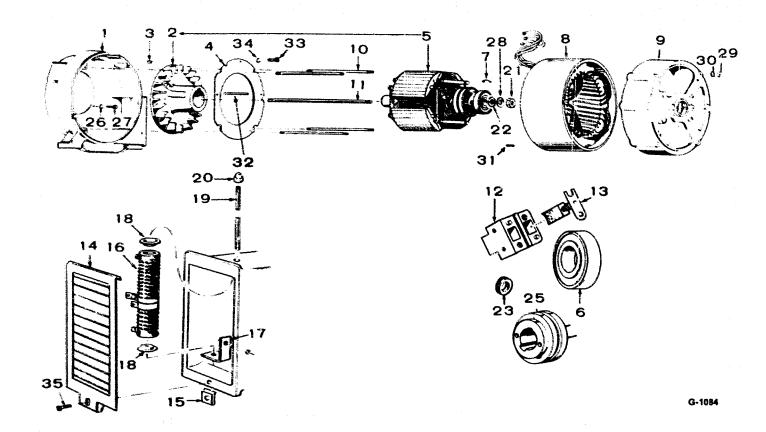
^{* -} Parts Included in 132-0241 Repair Kit. # - Parts Included in 132-0240 Repair Kit.

EXHAUST SYSTEM

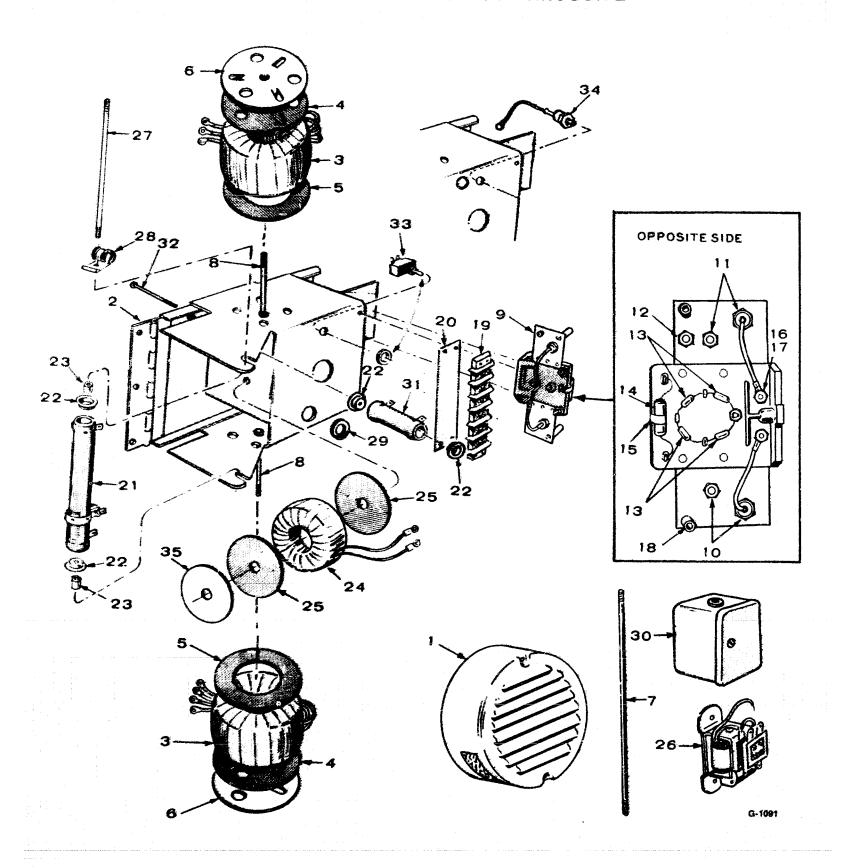


| 1 154-0714 1 Manifold, Exhaust - Key 2 850-0050 2 Washer, Lock - Spring (Exhaust Tube Mountir Key 1 3 154-1057 4 Gasket, Exhaust Manifol | |
|---|-------|
| 2 850-0050 2 Washer, Lock - Spring (Exhaust Tube Mountin Key 1 3 154-1057 4 Gasket, Exhaust Manifol | 1 |
| | 3/8") |
| | d |
| 4 155-0456 1 Muffler, Exhaust (15" lg) | |
| 5 TUBE, EXHAUST (Flexible) | |
| 155-0493 1 36" lg - Key 1, Key 2 | |
| 155-0927 1 10" lg - Housed Sets (Us With 155-036\) Critical Muffler) | ed |
| 6 155-0806 1 Tube, Exhaust Outlet - K | ev 1 |
| 7 505-0043 2 Elbow, Pipe (1-1/2"-90°) Housed Sets (Used Wi 155-0360 Critical Muffi | th |
| 8 154-0738 1 Gasket, Exhaust Outlet - | |
| 9 154-1665 4 Tab. Lock - Exhaust Man | |
| 10 505-0032 1 Coupling, Pipe (1-1/2") Unhoused Sets | |
| 11 116-0445 8 Nut, Hex - Exhaust Manii Mounting (Special) | old |
| 12 800-0052 2 Screw, Cap - Hex Head | 100 |
| (3/8-16 x 1-1/2") Exhar Tube Mounting - Key 1 | |

GENERATOR - SPEC A THROUGH Z



| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION | REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|-------------|--------------|-------------------------------|-------------|-------------|--------------|----------------------------|
| 1 | 231-0112 | * | Adapter, Engine to Generator | 17 | 232-1565 | 1 | Bracket, Resistor Mounting |
| 2 | 205-0064 | 1 | Blower, Generator | 18 | 304-0006 | 2 | Washer, Resistor Centering |
| 3 | 515-0006 | 1 | Key, Blower | 19 | 520-0620 | 1 | Stud, Resistor Mounting |
| 4 | 234-0162 | 1 | Baffle, Generator Air | 20 | 866-0001 | 1 | Nut, Resistor Mounting |
| 5 | 201-1122 | . 1 | Rotor Assembly, Wound | 21 | 870-0203 | 1 | Nut, Rotor through Stud |
| | | | (Includes Bearing and Blower) | 22 | 232-0200 | 1 | Washer, Tapered - Rotor |
| 6 | 510-0047 | 1 | Bearing, Rotor | | | | through Stud |
| 7 | 232-0596 | 1 | Clip, Bearing Stop | 23 | GROMMET | . RUBBER | |
| 8 | STATOR ASS | SEMBLY, | | | 508-0095 | 1 | Air Baffle |
| | 220-0736 | 1 | 3R Sets | | 508-0112 | 1 | Lead Outlet |
| | 220-0737 | 1 | 4R Sets | 25 | 204-0061 | 1 | Ring, Collector |
| | 220-0756 | 1 1 | 4XR Sets | 26 | 850-0040 | 4 | Washer, Lock - Generator |
| 1 1 | 220-0766 | 1 | 5DR Sets | | | | Adapter Mounting |
| | 220-0768 | 1 | 9XR Sets | 27 | SCREW, H | EX CAP - G | ENERATOR ADAPTER |
| | 220-0797 | 1 | 53CR Sets | | MOUNTING | 3 | |
| | 220-0871 | 1 | 57R Sets | | 800-0051 | . 2 | 3/8-16 x 1-1/4" |
| 9 | BELL, END | | | | 800-0050 | 2 | 3/8-16 x 1" |
| | 211-0146 | 1 | Sets Without Overspeed Switch | 28 | 850-0055 | 1 | Washer, Lock (7/16") |
| | 211-0152 | 1 | Sets With Overspeed Switch | 29 | 862-0015 | 4 | Nut, Hex (5/16-18) - |
| 10 | 520-0640 | 4 | Stud, Generator Through | | | | Generator through Stud |
| 11 | 520-0615 | 1 | Stud. Rotor Through | 30 | 850-0045 | 4 | Washer, Lock (5/16") |
| 12 | 212-1064 | 2 | Block, Collector Ring Brush | 31 | 516-0138 | 2 | Pin, Roll (3/16" x 5/8") - |
| 13 | 214-0059 | 4 | Brush, Collector Ring | | | | Alignment |
| | 212-0280 | | Rig Assembly, Brush (Includes | 32 | 515-0103 | 1 | Key, Blower to Rotor |
| | | | Leads, Collector Ring | 33 | 813-0098 | 5 | Screw (10-32 x 3/8") - |
| | | | Brushes (4) and Blocks (2) | | | _ | Baffle Mounting |
| | | | and Hardware) - Not Shown | 34 | 850-0030 | 5 | Washer, Lock (#10) |
| 14 | 234-0199 | 1 | Cover. Air Outlet | 35 | 812-0102 | 1 | Screw, Round Head - Air |
| 15 | 870-0177 | 1 | Clip. Air Outlet Cover | | | · • | Outlet Cover Mounting |
| 16 | 304-0500 | 1 | Resistor, Tapped Adjustable | | | | |
| 16 | 304-0500 | 1 | Resistor, Tapped Adjustable | | | | |



NOTE: 06SX1N1B used on 60 cycle 120'240 volt. 277'480 volt. and 347'600 volt 3 phase sets.

06SX1N3B used on ali 60 cycle sets except 120'240 volt. 277'480 volt. and 600 volt 3 phase sets.

06SX51N3B used on 50 cycle sets 120'240 volt. 277'480 volt. and 600 volt 3 phase sets.

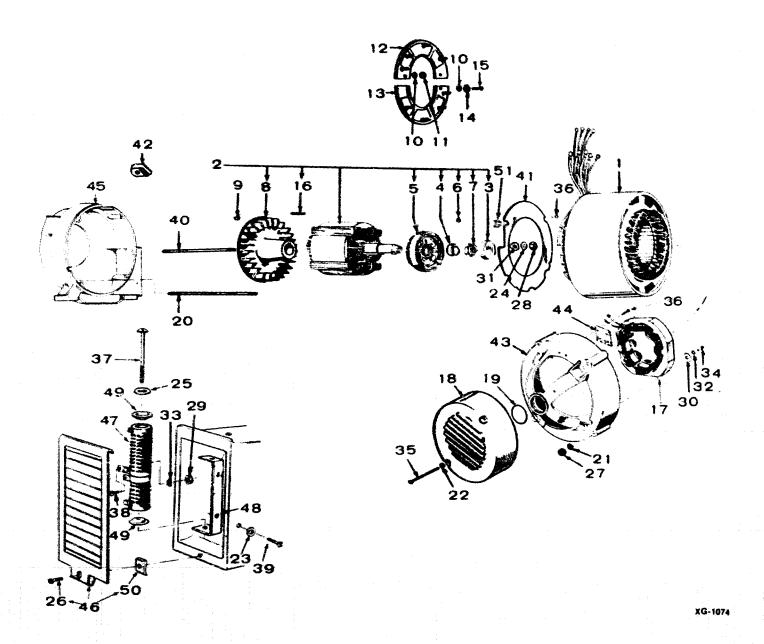
06SX51N3B used on ali 50 cycle sets except 120'240 volt. 277'480 volt. and 600 volt, and 347'600 volt 3 phase sets.

Check set nameplate for Magneciter number and use correct column.

| REF | PART | PART PART | | | - | AUG | NTI | TY | USE | D | | , |
|-----------------------|--|--|-------|-----|---|-----|-----|----|-----|------------------|-----|---|
| NO. | NUMBER | DESCRIPTION | A | В | С | D | E | F | G | н | J | × |
| | | 02SX1N1A Use Column A 04SX1N1A Use Column B 04SX1N1B Use Column C 04SX1N3B Use Column D 06SX1N1A Use Column E 06SX1N1B Use Column F 06SX1N3B Use Column G 06SX51N1A Use Column G 06SX51N1A Use Column H 06SX51N1B Use Column J | х | х | X | X | х | x | х | x | X | |
| | 209-0001 209-0002 209-0003 209-0005 209-0007 209-0010 209-0011 209-0012 | Exciter, Complete (Less Cover) | 11 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | |
| 1 1 2 2 | 209-0013 234-0154 234-0185 234-0153 234-0188 | Exciter, Complete (Less Cover) Cover, Exciter Cover, Exciter Panel Only, Exciter Panel Only, Exciter | 1 1 2 | | 1 | 1 | 1 | 1 | | 1 | 1 1 | |
| 3 3 3 4 | 315-0084 315-0099 315-0102 315-0104 232-1553 | Reactor, Gate Reactor, Gate Reactor, Gate Reactor, Gate Reactor, Gate Gasket, Gate Reactor Mounting - Outer | 2 | 2 | 2 | | 2 | 2 | | 2 | 2 | |
| 4 5 6 6 7 | 232-1608 232-1551 232-1552 234-0191 520-0211 | Gasket, Gate Reactor Mounting - Outer Gasket, Gate Reactor Mounting - Inner Retainer, Gate Reactor Retainer, Gate Reactor Stud, Gate Reactor Mounting | 2 2 1 | | | | 2 | 2 | 2 2 | 2 2 2 1 | 2 | |
| 8 8 9 | 800-0013 800-0015 305-0259 | Screw, Cap - Hex Head (1/4-20 x 2-1/2") Screw, Cap - Hex Head (1/4-20 x 3") Rectifier Assembly (Includes Parts Marked †) Rectifier Assembly (Includes Parts | 1 | 1 | 1 | | | 2 | 2 | | 2 | |
| 9 | 305-0264 305-0388 | Marked Δ) Rectifier Assembly (Includes Parts Marked *) Rectifier Assembly (Includes Parts | | | | 1 | 1 | 1 | | 1 | 1 | |
| 10 11 12 | 305-0238 305-0239 305-0239 | Marked £) †Δ°£ Rectifier Only, Power Field (Negative) †Δ°£ Rectifier Only, Power Field (Positive) Δ£ Rectifier Only, Field Flash | 2 2 | 2 2 | | 1 | | 1 | 1 | 2 | | |
| 13 | 305-0240 | †∆°£ Rectifier, Voltage Control | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 |

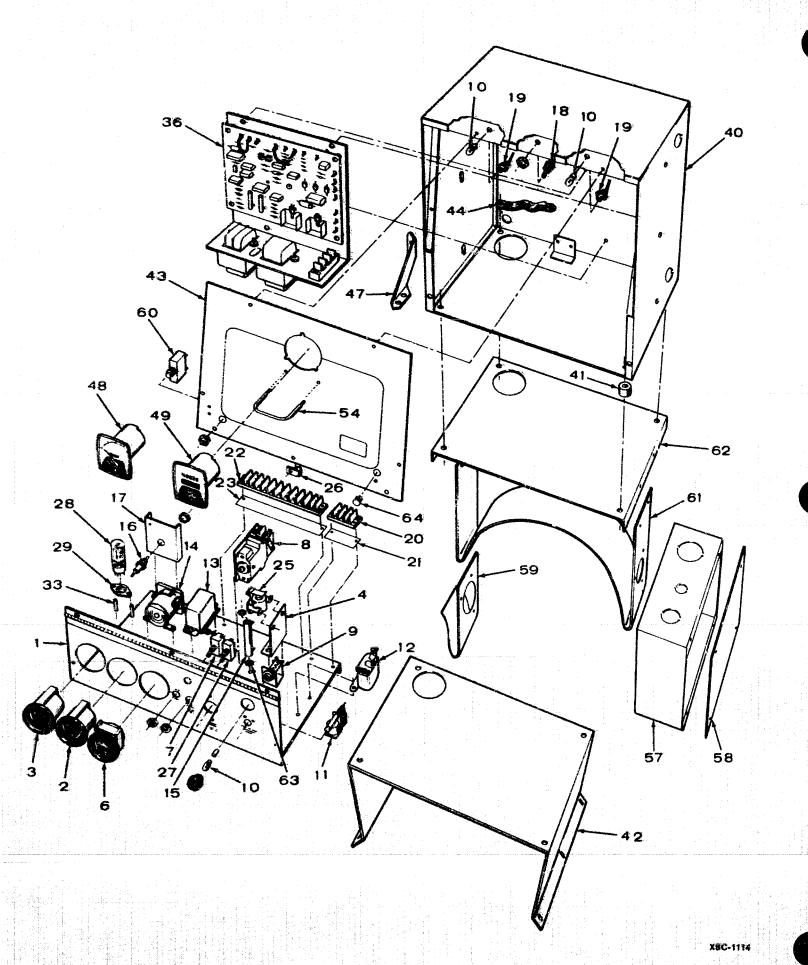
| REF | PART | PART | QUANTITY USED | | | | | | | D | D | | | | | |
|-----------|----------------------|---|---------------|---|----------|----|-----|----------|-----|---|-----|----|--|--|--|--|
| NO. | NUMBER | DESCRIPTION | | В | С | D | Ε | F | G | Н | J | K | | | | |
| | | | | | | | | | | | | | | | | |
| 14 | 304-0476 | †∆Resistor (500-Ohm, 5 Watt) | 1 | 1 | 1 | 1 | | | | | | | | | | |
| 14 | 304-0512 | '£ Resistor (150-Ohm, 50 Watt) | _ | _ | | _ | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| 15 | 304-0498 | †Δ°£Clip, Resistor Mounting | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| 16 | 332-0697 | †Δ°£Stud, Terminal (Flat Head) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | |
| 17 | 332-0698 | †Δ'£Stud, Terminal (Extended Slotted Head) | 1 | 1 | 1 | | 1 | 1 | . 1 | 1 | 1 | 1 | | | | |
| 18 | 870-0196 | †Δ°£Fastener (Compression Type) | 2 | 2 | 2 | 2 | 2 | 2 | : 2 | 2 | 2 | 2 | | | | |
| 19 | 332-0699 | Block, Terminal | 1 | 1 | | | 1 | | | 1 | | | | | | |
| 19 | 332-0745 | Block, Terminal | | | 1 | 1 | | 1 | 1 | | 1 | 1 | | | | |
| 20 | 332-0700 | Strip, Block Marker | 1 | | | | | | | | | ĺ | | | | |
| 20 | 332-0738 | Strip, Block Marker | | 1 | | | 1 | ١. | | 1 | ١, | 1 | | | | |
| 20 | 332-0746 | Strip, Block Marker | | | 1 | | | 1 | | | 1 | | | | | |
| 20 | 332-0925 | Strip, Block Marker | 1 | | | 1 | | | 1 | | | 1 | | | | |
| 21 21 | 304-0489 304-0511 | Resistor, Fixed (200-Ohm, 50 Watt) Resistor, Tapped - 500-Ohm (425 Fixed, | 7 | | | | | | | | | | | | | |
| 41 | 304-0311 | 75 Adj.) | | 1 | | | 1 | | | 1 | | | | | | |
| 21 | 304-0527 | Resistor, Tapped - 500-Ohm (425 Fixed, | | | | | 1 | | | 1 | | | | | | |
| 21 | 304-0327 | 75 Adj.) | | | 1 | 1 | | 1 | 1 | | 1 | 1 | | | | |
| 22 | 304-0015 | Washer, Centering - Resistor | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | |
| 23 | 232-1473 | Spacer, Resistor Mounting | 2 | 1 | , | • | ' | " | • | | • | 7 | | | | |
| 23 | 232-1550 | Spacer, Resistor Mounting | - | 2 | | | 2 | | | 2 | | | | | | |
| 23 | 232-1474 | Spacer, Resistor Mounting | | | 2 | 2 | | 2 | 2 | | 2 | 2 | | | | |
| 24 | 315-0085 | Reactor, Voltage Control | 1 | | - | | | | _ | | | - | | | | |
| 24 | 315-0100 | Reactor, Voltage Control | | 1 | 1 | 1 | 1 | 1 | 1 | | : | | | | | |
| . 24 | 315-0105 | Reactor, Voltage Control | | | | | | | | 1 | 1 | 1 | | | | |
| 25 | 232-1548 | Gasket, Voltage Control Reactor | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | |
| 26 | 307-0584 | Relay, Field Build-Up | 1 | | | | | | | | | | | | | |
| 27 | 520-0641 | Stud, Tapped Resistor Mounting | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | | | |
| 27 | 812-0116 | Screw, Tapped Resistor Mounting | | | | | | | | | | | | | | |
| | | (RHMS #10-24 x 4-1/2") | | 1 | | | 1 | | | 1 | | | | | | |
| 28 | 332-0050 | Clip, Loop | 1 | 1 | | | 1 | | | 1 | ١. | ١. | | | | |
| 28 | 332-0052 | Clip, Loop | , | 1 | 1 | 1 | 1 | 1 1 | 1 | 1 | 1 1 | | | | | |
| 29 | 508-0008 | Grounet, Rubber (For 7/8" Hole) | 1 | 1 | 1 | 1 | 1 | I | T | 1 | • | - | | | | |
| 30 31 | 307-0643 | Cover, Field Relay Resistor, Fixed (250-Ohm, 25 Watt) | .1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| 32 | 304-0510 813-0112 | Screw, Fixed Resistor Mounting | | T | . 1 | 1 | | 1 | 1 | 1 | 1 | • | | | | |
| 32 | 013-0112 | (RHSMS #10-32 x 2-1/2") | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| 33 | 308-0175 | Switch, Residual Reset | | • | 1 | • | - | 1 | - | - | ī | | | | | |
| 34 | 305-0238 | Rectifier, Power Field - Negative | | | | 1 | | | 1 | | | 1 | | | | |
| 35 | 526-0173 | Washer, Retainer - Voltage Control Reactor | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| | ASSOCI | ATED HARDWARE (NOT ILLUSTRATED) | | | | | | | | | | | | | | |
| | | CCDCM MACHINE DOUBLE HEAD | | | | | | | | | | | | | | |
| | 012 015/ | SCREW, MACHINE - ROUND HEAD | | | | D. | L | rec | | | | | | | | |
| · | 812-0156 | 1/4-20 x 1-1/2" #10-32 x 9/16" | | | As Ad | | | rec | | | | | | | | |
| | 813-0101 811-0098 | #10-32 x 9/10" #10-32 x 3/8" (Brass) | | | | | | rec | | | | | | | | |
| | 811-0098 813-0098 | #10-32 x 3/8" (brass) | | | | | | red | | | | ĺ | | | | |
| | 815-0190 | #8-32 x 3/8" | | | As | | | red | | | | | | | | |
| | 815-0190 815-0198 | #8-32 x 5/8" | | | | | | rec | | | | | | | | |
| | 815-0001 | Screw, Machine - Binder Head (Brass) | | | | | ٦ | | Γ | ĺ | | 11 | | | | |
| | | (#6-32 x 1/4") | | | As | Re | qui | red | 1 | | | | | | | |

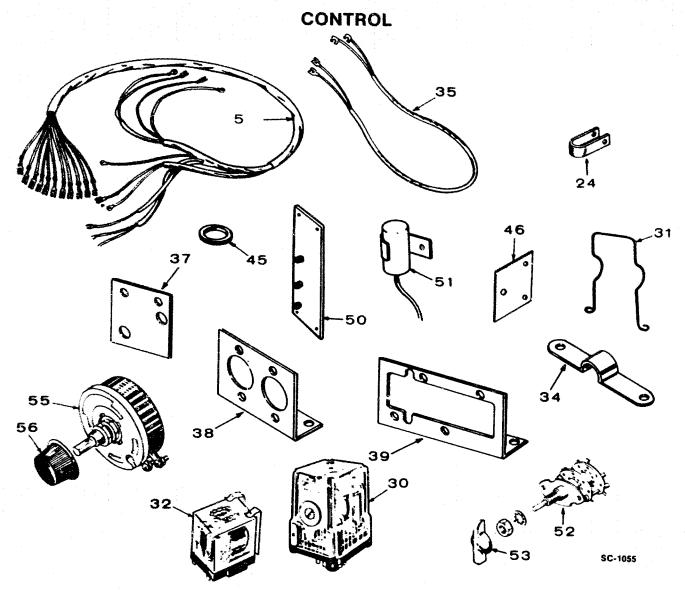
| REF | PART | QUANTITY USED | | | | | | | | | | | |
|-----|---|---|---|---|----|-----|------------|-----|----------|-------|-----|---|--|
| NO. | NUMBER | PART DESCRIPTION | A | В | С | D | E | F | G | н | j | | |
| | | | | | | | | | | | | | |
| | | WASHER, FLAT | | | | | | | | | | | |
| | 526-0003 | 11/64" ID x 3/8" OD x 1/32" Thk | 1 | | A: | s R | equ. | re | Ħ | | l | | |
| | 526-0048 | .172" ID x 3/8" OD x 1/32" Thk | | | A: | s R | equ | re | Ħ | | | | |
| | 526-0049 | .200" ID x 7/16" OD x 1/32" Thk | | | A: | ₽ R | equ | re | i . | | ĺ | | |
| | 526-0179 | 7/32" ID x 5/8" OD x 1/16" Thk | | | A | s R | equ | ire | Ħ | | | | |
| | 850-0030 | WASHER, LOCK - SPRING #10 | | | ١, | l n | | | , | | ĺ | 1 | |
| | 850-0040 | 1/4" | | | | | equ | | | | | | |
| | 853-0005 | Washer, Lock - ET | | | | | equ equ | | | | | | |
| | | WASHER, LOCK - IT | | | `` | ľ " | ۲۹۵ | | 1 | | | | |
| | 854-0007 | #8 | | | A | s R | equ | re | ł | | | ĺ | |
| | 854-0010 | #10 | | | | | equ | | | | ĺ | | |
| | 854-0014 | 1/4" | | | | | equ | | | | | | |
| | 0(0,000 | NUT, HEX | | | ١. | | | | | | | | |
| | 860-0008 860-0011 | #8-32 | | | | | equ | | | | | | |
| • | 862-0001 | #10-24 1/4-20 | | | | | equ | | | | ĺ | | |
| | 870-0053 | #10-32 | | | | | equ equ | | | | İ | | |
| | 871-0005 | #6-32 (Brass) | | | | | equ equ | | | | | | |
| | 871-0007 | #8-32 (Brass) | | | | | equ | | | | | | |
| | 871-0010 | #10-32 (Brass) | ļ | | | | equ | | | | | | |
| | | | | | | | • | | | | | | |
| | | Han 274 0227 5 1 | | | | | | | | | | | |
| | | • - Use 234-0223 cover for housed sets. † - Parts included in 305-0259 Rectifier As: | | L | | | | | | | İ | | |
| | | Δ- Parts included in 305-0387 Rectifier As | | | | | | | | | | | |
| ĺ | | • - Parts included in 305-0264 Rectifier As | | | | | | | | | | | |
| | | £ - Parts included in 305-0388 Rectifier As | | | | | | | | | | | |
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GENERATOR - BEGIN SPEC AA

| | REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION | REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|---|-------------|----------------------|--------------|--|-------------|----------------------|--------------|---|
| | 1 | STATOR, | GENERATO | OR . | 27 | 862-0011 | 4 | Nut, Hex (3/8-16 - Generator |
| | | | | 14.5 RDJF | | | | Through Stud |
| | | 220-2027 | 1 | Single Phase | 28 | 870-0203 | 1 | Nut, Hex (7/16-20) - Rotor |
| | | 220-2052 | 1 | Three Phase | | | | Through Stud |
| | | 000 00+0 | | 15.0 RJDF | 29 | 871-0010 | 1 | Nut, Hex - Brass (#10-32) |
| | | 220-2018 220-2043 | 1 | Single Phase Three Phase | 20 | ree | | Resistor Tap |
| | | 220-2043 | ' | 16.0 RDJF | 30 | 526-0260 | 2 | Washer, Flat (Special) - Exciter Stator |
| | | 220-2019 | 1 | Single Phase | 31 | 232-0200 | 1 | Washer - Cone Shaped |
| | | 220-2044 | 1 | Three Phase | 31 | 232-0200 | • | (Special) Rotor Through Stud |
| | | | | 17.5 RDJF | 32 | 853-0013 | 2 | Washer, Lock (1/4" ET) - |
| | | 220-2019 | 1 | Single Phase | | | | Exciter Stator |
| | | | | Three Phase | 33 | 856-0003 | 1 | Washer, Lock (#10 EIT) - |
| | | 220-2044 | 1 | All Except 347/600 Volts | | | | Resistor Tap |
| | _ | 220-2287 | 1 | 347/600 Volt | 34 | 800-0004 | 2 | Screw, Cap - Hex Head |
| | 2 | 201-2159 | | GENERATOR (Includes Parts Marked *) | | | | (1/4-20 x 5/8") - Exciter |
| | | 201-2159 | 1 | All Except 15.0 RDJF 15.0 RDJF | 25 | CODEW M | CUME | Stator Mounting |
| | 3 | 510-0112 | 1 | *Bearing, Rotor | 35 | Cover Mour | | ROUND HEAD (End Bell |
| | 4 | 232-2398 | 1 | *Spacer, Bearing | | 812-0165 | g, 2 | Sets Without Overspeed |
| | 5 | 201-2151 | 1 | *Rotor, Exciter | | 012-0103 | _ | Switch (1/4-20 x 4-1/2") |
| | 6 | 515-0094 | 1 | *Key, Exciter Rotor | | 812-0167 | 2 | Sets With Overspeed Switch |
| | 7 | 870-0284 | 1 | *Nut. Exciter Rotor Locking | | | | (1/4-20 x 6") |
| | 8 | 205-0105 | 1 | *Fan, Generator | 36 | 815-0194 | 6 | Screw, Hex Head - Thread |
| | 9 | 515-0006 | 1 | Key. Fan to Crankshaft | | | | Cutting with ET (#10-32 x |
| | 10 | 526-0008 | 12 | "Washer, Flat (13/64" ID x | | | | 3/8") Board (2) and Baffle |
| | | 070.0101 | | 7/16" OD x 1/32" Thk) | 07 | 040 0400 | | (4) Mounting |
| | 11 12 | 870-0131 358-0069 | 8 1 | *Nut. Hex (#10-32) *Rectifier Assembly - Positive | 37 | 812-0169 | 1 | Screw, Machine - Round Head |
| | 13 | 358-0070 | 1 | *Rectifier Assembly - Negative | | | | (1/4-20 x 5-1/2") - Resistor Through |
| | 14 | 853-0008 | 4 | *Washer, Shakeproof (#10) | 38 | 811-0098 | 1 | Screw, Machine - Round Head |
| | 15 | 813-0100 | 4 | *Screw. Round Head | 00 | 011 0000 | • | (Brass) (#10-32x 3/8") - |
| | | | | (#10-32 x 1/2") | | | | Resistor Tap |
| | 16 | 515-0103 | 1 | *Key. Fan to Rotor | 39 | 800-0004 | 2 | Screw, Cap - Hex Head |
| | 17 | 220-2009 | 1 | Stator, Exciter | | | | (1/4-20 x 5/8") - Resistor |
| | 18 | COVER. E | | | | | | Bracket |
| | | 234-0185 | 1 | Sets Without Generator Space | 40 | STUD, ROT | | |
| | | 224 0400 | • | Heater or Overspeed Switch | | 520-0791 | 1 | All Except 15.0 RDJF |
| | | 234-0498 234-0542 | 1 | Sets With Overspeed Switch Sets With Generator Space | 41 | 520-0790 234-0462 | 1 | 15.0 RDJF Baffle, Air |
| | | 234-0342 | * | Heater | 42 | 508-0112 | 1 | Grommet, Rubber - Generator |
| | | 234-0543 | 1 | Sets With Generator Space | 72 | 300-0112 | • | Adapter (2-3/4" x 1-7/8") |
| | | 20 1 00 10 | · | Heater and Overspeed Switch | 43 | 211-0237 | 1 | Bell, End |
| | 19 | 509-0094 | | Seal, Bearing ("O" Ring) | 44 | 232-2418 | 1 | Board, Connection |
| | 20 | STUD. GE | NERATOR ' | THROUGH | 45 | 231-0171 | 1 | Adapter, Generator |
| | | 520-0799 | 4 | All Except 15.0 RDJF | 46 | 234-0494 | 1 | Cover Assembly, Air Outlet |
| | | 520-0798 | 4 | 15.0 RDJF | | | | (Includes Parts Marked #) |
| | 21 | 850-0050 | 4 | Washer, Lock - Spring (3/8") - | 47 | 304-0500 | . 1 | Resistor, Tapped - Adjustable |
| | 22 | 850-0040 | | Generator Through Stud | 40 | 222 2200 | | (2 Ohm, 150 Watt) |
| | 22 | OPO OPO | 2 | Washer, Lock - Spring (1/4") - End Bell Cover | 48 49 | 232-2399 304-0006 | 1 2 | Bracket, Resistor Mounting Washer, Centering - Resistor |
| ÷ | 23 | 850-0040 | 2 | Washer, Lock - Spring (1/4") - | - 73 | 304-0000 | £ | Mounting Mounting |
| | | 200 0010 | · • | Resistor Bracket | 50 | 870-0177 | 1 . | #Nut, Speed (#10) |
| | 24 | 850-0055 | . 1 | Washer, Lock - Spring (7/16") - | 51 | 508-0095 | i | Grommet, Rubber - Air Baffle |
| | | | | Rotor Through Stud | | • | | (25/32" × 21/32") |
| | 25 | 853-0013 | 1 | Washer, Lock (1/4" ET) - | | | | |
| | | | | Resistor Through Screw | | | | or Rotor Assemblies. |
| | 26 | 809-0046 | 1 | #Screw, Sheet Metal - Round Head (#10 x 3/4") | # - Pa | irts included i | ın 234-049 | 4 Cover Assembly. |



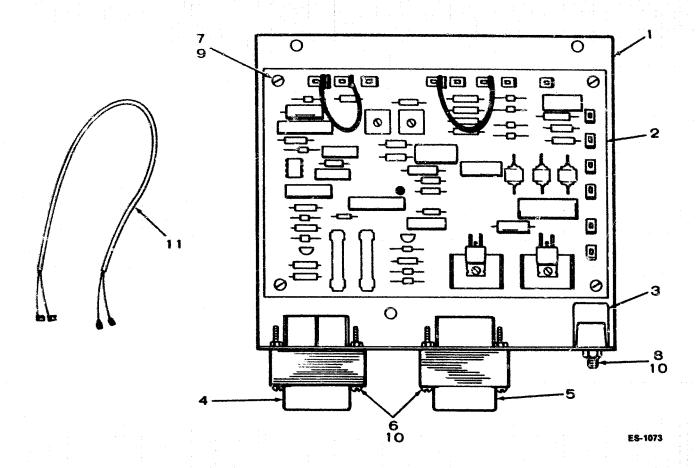


| REF. | PART NO. | QTY. USED | PART DESCRIPTION | REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------|--------------|-----------------|-----------------------------|-------------|-------------|--------------|---|
| 1 | PANEL, LOV | WER CON | TROL | 9 | 322-0069 | 1 | Receptacle, Signal Light |
| | 301-2124 | 1 | Sets With 1 Signal Light | _ | | | (Not Used on Pennsylvania |
| | 301-2125 | 1 | Sets With 4 Signal Lights | | | | Approved Sets) |
| | 301-2895 | 1 | Pennsylvania Approved Sets | 10 | 322-0004 | 3 | Bulb, Signal and Panel Light |
| | | | Without Signal Lights | 11 | 307-0655 | 1 | Relay, Emergency Latching |
| 2 | GAUGE, WA | ITER TEM | PERATURE | | | • | (Not Used on Pennsylvania |
| | 193-0106 | 1 | Spec A through AA | | | | Approved Sets) |
| 14 11 | 193-0245 | 100 | Begin Spec AB | 12 | 307-0052 | 1. | Relay, Start Disconnect |
| 3 | GAUGE. OIL | L PRESSU | RE | 13 | 307-0597 | 1 | Relay, Fuel Solenoid |
| | 193-0107 | 1 | Spec A through AA | 14 | 307-0514 | ż | Relay - Starter Pilot and |
| 7 j | 193-0243 | 1 | Spec AB | | | _ | Manifold Heater |
| | 193-0272 | 1 | Begin Spec AC | 15 | 304-0192 | 1 | Resistor, Cranking Limiter |
| 4 | 301-1685 | 1 | Bracket, Time Delay Relay | | | | (3 Ohm, 10 Watt) |
| | 1 | | Mounting (Sets With Low | 16 | 305-0673 | 1 | Rectifier, Charge (10 Amp. |
| | | | Oil Pressure Switch) | | | | 100 Volt) - Includes Mounting |
| 5 | 338-0298 | 1 | Harness, Wiring - Engine to | | | | Hardware |
| | | | Control | 17 | 305-0254 | 1 | Bracket, Rectifier Mounting |
| 6 | 302-1366 | 1 | Ammeter. Charge | 18 | 308-0002 | 1 | Switch, Panel Light |
| 7 | SWITCH, SE | LECTOR | (Begin Spec D) | 19 | 322-0072 | 2 | Receptacle, Panel Light |
| | 308-0220 | 1 | All Except Pennsylvania | 20 | 332-0611 | 1 | Block, Terminal - 3 Place |
| | | | Approved Sets (Run-Stop- | 21 | 332-1009 | 1 | Strip, Marker - 3 Place |
| | | | Remote) | 22 | BLOCK, TE | RMINAL | |
| | 308-0068 | 1 1 | Pennsylvania Approved Sets | | 332-0607 | 1 | Sets With 1 Signal Light |
| | and Malaking | | (Run-Remote) | | | | (12 Place) |
| 8 | LIMITER, CR | RANKING | | | 332-1005 | 1 1 | Sets With 4 Signal Lights |
| | 320-0104 | 1 | Spec A through AA | | 100 | | (20 Place) |
| | 320-0259 | | Begin Spec AB | | 332-0795 | 1 | Pennsylvania Approved Sets Without Signal Lights (16 Place) |

CONTROL

| 24 25 26 27 28 | 3.1919, MARY 932-0608 3.52-1966 3.52-0686 3.57-0886 2.149, HARNS 2.32-0861 7.32-0862 3.07-0645 3.07-0645 | : : | Sets with a Signal Light 1, 20 Places Sens it to 4 Signal Lights (ad Flate) Periody Labora Sportsed Sets VMT Lid Signal Lights (to Place) Disease Harriers Support Place Harriers Support Place Time Delay, Sets with Live Collins such Switch Live Collins such Switch Live Collins such Switch Flat ID Self | 43 46 46 | PANEL LIPE Meter Panel 301-113- 301-113- 301-113- 301-1788 STRAP, GRO 337-0044 S37-0038 GROMMET, p. 18-0763 | t t d d d d d d d d d d | Spen A through Z A Current Per dephania Address et Sets From Spec AA Ab Except Peansymania Beta Sets From Winder Approved Sets Coused |
|----------------------------------|---|--|--|------------------|---|--|--|
| 28 26 26 27 28 29 | 2:02-1106 132-0862 014-0096 007-0368 0119-HARNI 032-0861 032-086 008-0037 307-0645 | 1 3 255 54 F7 4 4 4 | Cal Place: Service of the 4 Sephal Elights (chief late) Permay Labora Sparesed Sats Various Sephal Lights Chief services Support Chief Harris Support Chief Harris Sephal Lights Link Chief Labora Switch Link Chief Labora Switch The 10 5 81 10 5 81 10 5 witch Manifold Heater Policy Time Delay Precent -20 Sephal Call Particlesed on Sephal With Continuous Grow | 46 | 301-1135 331-2319 331-1388 57848, GRC 337-0344 337-0344 337-0346 38044,817, 5-35-6383 | TOUND (Un T T RUBBER 2 | A Current Perception of Acceptance Approved Sets Found Season Approved Sets Begin Spec AA Alt Except Removement A prived Sets Perceptions Approved Sets coused Sets Spec A through Z Begin Pack AA 2-3 4 Timle Unitinused Sets Blacket Sets Use to |
| 24 25 26 24 28 | 132-08-32 016-0096 007-03-6 0119, HAB14 032-06-1 732-06-2 508-0037 307-06-45 | 1 3 255 54 F7 4 4 4 | (cd flate) Permay value is Apprecied Sats Various Supra Legats Clarke Harrish Suprant Person Harrish Suprant Low Confressors Switch FORT I fall D Switch Manifest Heater Relay Time Delay Precess -20 Secretas Manifest Gow Sets With Continuous Gow | 46 | 331-2319 331-1788 81842, GRC 331-3344 337-334 38044,811, 5-3-3483 | i DUND (Um I SUBBER S | A Current Perception of Acceptance Approved Sets Found Season Approved Sets Begin Spec AA Alt Except Removement A prived Sets Perceptions Approved Sets coused Sets Spec A through Z Begin Pack AA 2-3 4 Timle Unitinused Sets Blacket Sets Use to |
| 26 26 26 24 28 | #14-0096 ##7-0368 ##14814 #32-0361 #32-0382 #307-0645 | ************************************** | Perception of Sparesed Sets Vannical Sepair Legats Classifications Sepairat Person Harrings Sepairat Person Confression Switch Person A 161 ID 5 81 ID 5 with Manified Heater Pelay Time Delay Precent -20 Sepairas I Manifies Grow Sets With Continuous Grow | 46 | 304-2319 304-1788 STRAP, GRC 337-0044 337-0035 38044,917, 5-3-6783 | rueber 3 | Principle data Approved Sets Begin Spec AA Ab Except Beansywarea All prived Sets Permentanea Approved Sets coused Sets Spec A through 2° Begin Spec AA 2-3 4° Inde Unitioused Sets Blacked Sets Use to |
| 26 26 28 28 28 | 927-0368 9149, HARNS 232-0361 732-0352 938-0337 307-0645 | ************************************** | Cta Peaced Cleare Harmons Support Peace Thin Learn Sets With Link Confressure Switch The ID 5 87 ID Switch Manified Heater Polar Time Delay Precent 20 Secretors I With Seed on Sets With Continuous Glow | 46 | 304-1788 87844, 680 337-0044 337-0033 38044,817, 513-6983 | rueber 3 | All Eldert Heansywarea All printed Sets Consens Sets Coused Sets Special Process A Begra PreciaA 2-3 41 Pete Unitioused Sets Glauke# Sets Use to |
| 26 26 28 28 28 | 927-0368 9149, HARNS 232-0361 732-0352 938-0337 307-0645 | ************************************** | Clement Harmons Summert Plas Confinence Switch Elle Confinence Switch PORT FIRED S RIPD Switch Manning Heater Relay Time Delay Precent -20 Seneral Particles Com Sens With Continuous Grow | 46 | 304-1788 8784A, GRC 337-0044 337-0033 38044,817, 513-6783 | rueber 3 | A prived Servinger Sets - Ammorrance Approved Sets - Coused Sets - Spire A through 2 1 - Begin Paec AA - 2-3 41 Pale - Unitinused Sets - 9450464 Sets Use 1) |
| 26 27 28 30 | U119, HARNS 232-0661 732-0662 508-0037 307-0645 | ************************************** | Euw Co-Pressone Switch. PORT 7-161-10 5-81-10 Ewath Mannad Heater Relay Time Delay Precent -20 Securias Parcies Sow Secs With Continuous Glow | 46 | STRAP, GRO 337-0044 337-0016 380-4415 5-5-6453 | rueber 3 | coused Sets (Spic A through Z) Spic A through Z) Begin Paec AA 2-3 4: Pale Unitinused Sats (9150464 Sets Use 1) |
| 27 28 29 | 232-6321 732-6052 508-6037 307-6645 223-6321 | ************************************** | PORT Fire ID 5 81 ID 5 81 ID 5 81 ID 5 81 ID 6 81 ID 10 ID | 46 | 337-0044 337-0336 38034497 5-34-6763 | rueber 3 | coused Sets (Spic A through Z) Spic A through Z) Begin Paec AA 2-3 4: Pale Unitinused Sats (9150464 Sets Use 1) |
| 87 128 29 30 | 232-6321 732-6052 508-6037 307-6645 223-6321 | ************************************** | First ID 5-81-90 East th Manning Heater Boldy Time Dilley Preneat -20 Senerals I Man beed on Sets With Continuous Glow | | 537-6-35 - 380*4/87. 5-34-6/83 | RUBBER | Begin Paec AA 2-3 4 Profe Unitioused Sets 945046¢ Sets Use to |
| 37 29 39 30 | 732-0052 308-0037 307-0645 323-0321 | ************************************** | 5-81-40 Ewath March of Heater Relay Time Deley Present -20 Sections Parchases on Secsivity Continuous Glow | | 330MMHT. 5 3-6763 | RUBBER 3 | 2-3 4 199te Unitioused Sets 9450-sed Sets Use to |
| 37 29 30 30 | 307-0645 307-0645 323-0321 | \$ | Sweeth March a d Hea ter Relige Time Delay Precent -20 Secretas Marchised on Secs With Continuous Glow | | 5. 13+6+153 5. 13+6+153 | 23 | Bitalised Sets Use to |
| 28 29 30 | 307-06 4 5 313-0321 | \$ | Religio Titmis Dellay Prement -20 Secretias - Marchised om Secs With Continuaces Graw | 毒粉 | | | Bitalised Sets Use to |
| 30 30 | 323-0321 | , | -29 Sentinas i Marchiesa om Sers Weti Communis G low | ₩ Medi ₩ Medi | 968 0183 | * 1 | |
| 3.1 | | 7 | Sess Web Community Gow | 4.6 | and the second of the second of | 1 | |
| 3.1 | | | | | 101-01-45 | 3 | Plate Grand - Spec A |
| 3.1 | | 7 | | * | and with the said | , | the section of |
| 3.1 | | | SHOPE THE SECREPHENCE | 47 | 301-1914 | 1 | Bracket Panel Stop |
| | 817-0619 | | | | | AC-FO | mischarts Approved Sets |
| P*1 = | | ī | AND SHE WITH LOKE FOR THE | | 40/2-642* | 1 | Single Phase Sets (Scale |
| PT | | | โลสเทอเสมเดิ Saction | | | | Seads 3-300 |
| 47 | 39 7- 017 8 | 7 | Spirig Real Holadown - Ser. With Sow Bogare Temperature | | | 5 | Three Phase Sets (Scale Reads 0:600) |
| | | | 등 기계 및 기계 및 기계 기계 기계 기계 및 기계 및 기계 및 기계 및 | e - S lat 128 | POTER SH | CASSAN'S TE | VIE - Beren Span AA |
| | 397-0860 | * | ಕ್ಷಾ ಕ್ಷಾ ಕ್ಷಾ ಕ್ಷಾ ಕ್ಷಾ ಕ್ಷಾ ಕ್ಷಾ ಕ್ಷಾ | ··· | 10.12-0.458 | \$ *** | - 23 - 3. 58 58 58 58 |
| | 7 | | Pronsulvania Asproved Sets) | | 302-0465 | 1 | off steriz Sets |
| 33 | 332-0943 | 2 | Spacer Pelay Scoket | 53 | 332-0513 | 1 | Block Terminal - 4 Place |
| | 332-1043 | 7 | Jumper, Selector Switch - Sets | á. * | 3+2-0058 | - 3 | Condenser (1 Mtd.) Spec A |
| | | | Wilhout Time Delay Preheat | | | | through Z |
| | | | Helay | 52 | 308-0012 | 1 | Switch, Voltage Selector - |
| 35 | HARNESS, V | ARING (| Begin Spec AA) | | | | Pennsylvania Approved 3 |
| | 338-0763 | 1 | Voltage Regulator to Circuit | | | | Phase Sets Begin Spec AA |
| | | | Breaker | 53 | 303-0076 | 4 | Knob, Voltage Selector |
| | 338-0936 | 1 | Voltage Regulator to Running | | | | Switch - Pennsylvania |
| | | | Time Meter | | | | Approved 3 Phase Sets |
| 36 | 305-05 8 3 | 1 | Regulator, Voltage - Begin | | | | Begin Spec AA |
| | | | Spec AA (See Separate | 54 | 301-2727 | 1 | Handle, Upper Control |
| n ** | 000 0405 | | Group for Components) | , m | | _ | Panel |
| 37 . | 306-0195 | 1 | Plate. Starter Relay | 55 | 303-0197 | 7 | Rheostat (2500 Ohm, 25 Watt) |
| | ממא מערד מ | ~ | Mounting - Key 2 | | | | Sets With Voltage Adjustment |
| | Signal Lights | | OUNTING (Sets With Four | | 202 2022 | • | - Begin Spec AA |
| | 301-2393 | * | Used for Low Oil Pressure | 56 | 303-0032 | 1 | Knob, Rheostat - Sets With Voltage Adjustment - Begin |
| JD . | 301-2393 | 1 | and High Water Temperature | | | | Spec AA |
| | | | Relays or 5 and 10 Second | 57 | 301-3 68 2 | 1 | Box, Output - Begin Spec AA |
| | | | Cycle Cranker Relays | 58 | 301-0856 | 1 | Cover, Output Box - Begin |
| 39 | 301-3252 | 1 | Used for Generating and Low | 50 | 501-0050 | | Spec AA |
| i i | | | Engine Temperature Relays | 59 | 301-3720 | 1 , | Bracket, Output Box |
| | 301-2115 | 1 | Box, Control | | 000 5555 | | (Housed Sets) Begin Spec AA |
| | 402-0078 | 4 | Mount, Rubber | 60 | 320-0505 | 1 | Breaker, Circuit - Voltage |
| 42 | 301-2106 | 7 | Bracket, Mounting - Control | C-4 | 004 0745 | | Regulator - Begin Spec AA |
| | | | Box (Unhoused Sets) - Spec A through Z | 61 | 301-37 15 | 1. | Saddle, Control Box Mounting (Unhoused Sets) Begin |
| | | | | | | | Spec AA |
| | | | | 62 | 301-3716 | 1 - | Plate, Control Mounting (Unhoused Sets) Begin |
| | | | | | | | Spec AA |
| | | | | 63 | 506-0017 | 2 | Washer, Fiber - Resistor |
| | | | | 64 | 517-0015 | 1 | Mounting Plug, Dot Button |

VOLTAGE REGULATOR - BEGIN SPEC AA



| NO. | NO. | USED | PART DESCRIPTION |
|-----|------------------------|------|---|
| | 305-0583 | 1 | Regulator, Voltage (Includes Parts Marked *) |
| 1 | 301-3719 | 1 | *Panel, Voltage Regulator Mounting |
| 2 | 300-1540 | 1 | *Board, Voltage Regulator - Begin Spec AB (Replaces 300-1006 Board Used Prior To Serial Number |
| | | | F760142042 During Spec AA and 300-1404 Board Used |
| | | | Beginning Serial Number F760142042 During Spec AA) |
| | | | Refer to Printed Circuit |
| 1 | | | Board Parts Catalog Number |
| | | | 900-0234 for Board |
| | | | Components |
| 3 | 332-1655 | 1 | *Strip, Terminal |
| 4 | 315-0386 | 1 | *Transformer, Voltage |
| 5 | 315-0391 | 1 | *Reactor |
| 6 | 812-0070 | 4 | *Screw, Machine - Round Head (#6-32 x 1-1/4") |
| 7 | 812-0061 | 4 | *Screw, Machine - Round Head (#6-32 x 3/8") |
| 8 | 812-0063 | 2 | "Screw, Machine - Round Head (#6-32 x 1/2") |
| 9 | 853-0003 | 4 | *Washer, Lock - ET (#6) |
| 10 | 870-0183 | 6 | *Nut, Hex - ET (#6-32) |
| 11 | Exciter Stator) | | Voltage Regulator to |
| | 338-0762 | 1 | Sets Without Overspeed Switch |
| | 338-0768 | 1 | Sets With Overspeed Switch |

^{* -} Parts Included in 305-0583 Voltage Regulator.

SERVICE KITS AND MISCELLANEOUS

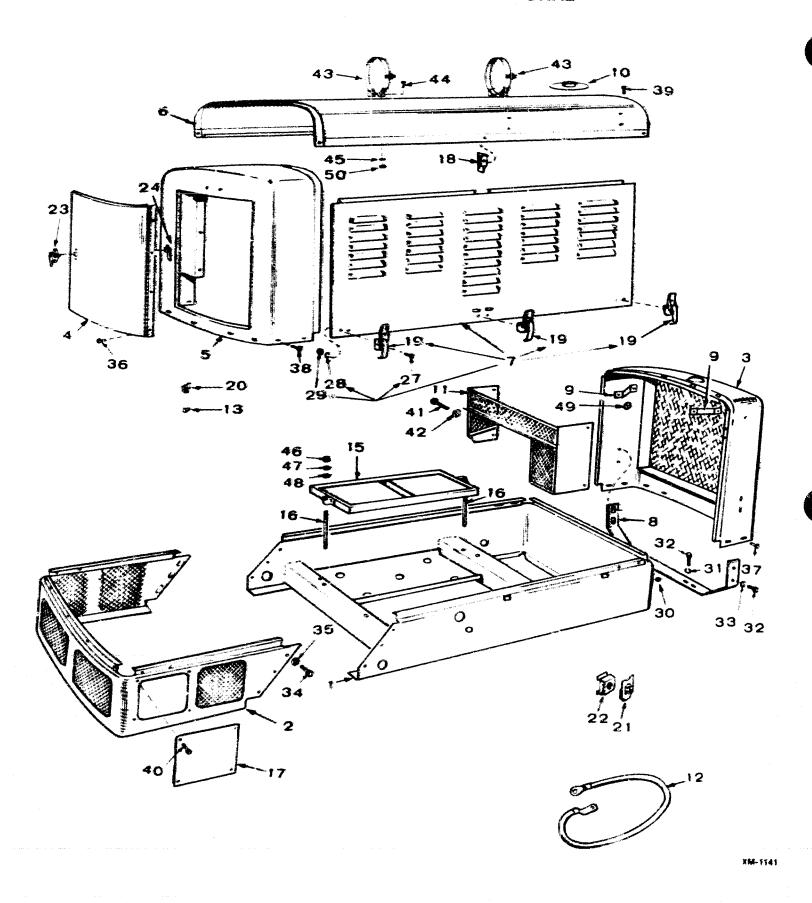
NOTE: For other kits refer to the related group for the part in question.

| PART NO. | OTY. USED | PART DESCRIPTION: |
|------------------|--------------|----------------------|
| LABEL KIT | | |
| 98-1100 | Ť | General Service |
| 98-2290 | T | Dieset |
| 168- 0108 | Ŧ | Gasket Kit. Engine |
| 522-0244 | T | Overhaul Kit, Set |
| TOUCH-UP | PAINT (13 | oz. Pressurized Can) |
| 525-0 137 | 1 | Metallic Green |
| 525-0305 | T | Non-metallic Green |
| 525-0454 | T | Greige - Enamei |

OPTIONAL PARTS SECTION

This section contains illustrated parts listing of factory installed options. Options may not be applicable to all models; for field conversions additional parts are usually required.

HOUSING AND CHASSIS - OPTIONAL

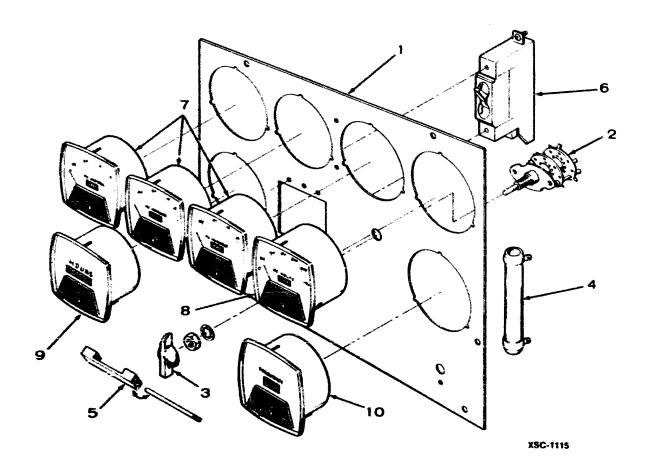


HOUSING AND CHASSIS - OPTIONAL

NOTE: Parts in this group are for both housed and unhoused sets unless otherwise specified. Parts marked with an asterisk (*) are standard for Radiator Cooled Sets (Key 1).

| REF. | PART NO. | QTY. USED | PART DESCRIPTION | REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|----------|-------------------------|--------------|--|-------------|--------------|--------------|--|
| 1 | 403-0718 | T T | *Chassis Mounting (Front Section) | 30 | 862-0003 | 2 | *Nut, Hex (3/8-16) Radiator to Chassis (HouseJ Sets) |
| 2 | 403-0477 | 1 | Chassis, Rear Section - Housed Sets | 31 | 850-0050 | 2 | *Washer, Lock - Spring (3/8") Radiator Support |
| 3 | 405-107 9 | 1 | (Radiator Grille) Spec A through AB | 32 | 800-0024 | 4 | *Screw, Cap - Hex Head (5/16-18 x 1/2") Radiator |
| | 405-2602 | 1 | Begin Spec AC | | 252 2245 | | Bracket to Radiator |
| 4 | 405-1080 | 1 | Panel, Rear Door (Housed Sets) NOTE: Early model sets using | 33 | 850-0045 | 4 | *Washer, Lock - Spring (5/16") Radiator Bracket to Radiator |
| | | | Rear Door Panel Knob also order 406-0157 Door Handle and 406-0089 Door Handle Catch | 34 | 800-0047 | 6 | Screw, Cap - Hex Head (3/8-16 x 5/8") Rear Chassis to Front Chassis (Housed Sets) |
| 5 | 405-1081 | 1 | Panel, Rear End (Housed Sets) | 35 | 850-0050 | 6 | Washer, Lock - Spring (3/8") |
| 6 7 | 405-1319 405-1084 | 1 2 | Panel, Top (Housed Sets) Panel Assembly, Side | | | - | Rear Chassis to Front Chassis (Housed Sets) |
| n | 130-0396 | | (Includes Parts Marked #) (Housed Sets) | 36 | 809-0059 | 4 | Screw, Pan Head (1/4" x 1/2") Rear Door Panel to Rear |
| 8 9 | BRACKET | 1 DADIATO | *Support, Radiator Mounting | 37 | 821-0014 | 8 | End Panel (Housed Sets) |
| 9 | 130-0397 130-1681 | 2 2 | Spec A through AB Begin Spec AC (Includes | 31 | 021-0014 | 0 | 'Screw, Locking Head (5/16-18 x 1/2") Front Panel to Chassis |
| | 130-1561 | _ | Washers) | 38 | 821-0014 | 8 | Screw, Locking Head |
| 10 | 405-1889 | 1 | Snield, Rain (Housed Sets) Used With 155-0360 Critical | 50 | 021 0014 | J | (5/16-18 x 1/2") Rear Panel to Chassis (Housed Sets) |
| | | | Muffler | 39 | 821-0014 | 12 | Screw, Locking Head |
| 11 | "GUARD, FA | IN | | | | | (5/16-18 x 1/2") Top Panel |
| | 130-0623 | 1 | Spec A through AB | | | | Mounting (Housed Sets) |
| | 130-1684 | , 1 | Begin Spec AC | 40 | 800-0024 | 4 | Screw, Cap - Hex Head |
| 12 13 | 336-0476 406-0002 | 1 | *Lead, Ground (12-1/4") Knob, Rear Door Panel - Used | | | | (5/16-18 x 1/2") Chassis Panel (Housed Sets) |
| 15 | 416-0495 | 1 | on Early Models (Housed Sets) *Frame, Battery Holddown | 41 | 800-0048 | 4 | *Screw, Cap - Hex Head (3/8-16 x 3/4") Fan Guard |
| 16 | 520-0669 | 2 | *Stud, Battery Holddown Frame | 42 | 850-0050 | 4 | to Radiator *Washer, Lock - Spring (3/8") |
| 17 | 403-0373 | 1 | Panel, Chassis (Housed Sets) | | | | Fan Guard to Radiater |
| 18 | 405-1181 | 2 | Stop, Door - Side Panel Assembly (Housed Sets) | 43 | 140-0078 | 2 | Band, Muffler Mounting (Housed Sets) Used With |
| 19 | 406-0105 | 6 | #Fastener, Side Panel (Housed Sets) | 44 | 800-0025 | 4 | 155-0360 Critical Muffler Screw, Cap - Hex Head |
| 20 21 | 406-0088 870-0106 | 4 | Catch, Rear Door Panel - Used on Early Models (Housed Sets) Nut, Speed - Rear Door Panel | | | | (5/16-18 x 5/8") (Housed Sets) Used With 155-0360 Critical Muffler |
| 22 | 870-0113 | 12 | Mounting (Housed Sets) Nut, Speed Grip - Top Panel | 45 | 850-0045 | 4 | Washer, Lock - Spring (5/16") (Housed Sets) Used With |
| 23 | 406-0157 | 1 | Mounting (Housed Sats) Handle, Door - Includes | 46 | 862-0015 | 4 | 155-0360 Critical Muffler *Nut, Hex (5/16-18) Battery |
| | | | Mounting Hardware and Keys (Housed Sets) | 47 | 526-0024 | 2 | Holddown *Washer, Flat (21/64" ID x |
| 24 | 406-0069 | 1 | Catch, Door Handle (Housed Sets) | ., | | | 3/4" OD x 1/16" Thik) Battery Holddown |
| 27 | 813-0098 | 12 | #Screw, Machine - Round Head (#10-32 x 3/8") Fastener | 48 | 850-0045 | 4 | *Washer, Lock - Spring (5/16") Battery Holddown |
| 28 | 650-0030 | 12 | Mounting (Housed Sets) #Washer, Lock - Spring (#10) | 49 | 526-0013 | 16 | "Washer, Flat (25/64" ID x 1" OD x 1/16" Thk) Radiator |
| | | | Fastener Mounting (Housed Sets) | 50 | 862-0015 | 4 | Bracket Nut, Hex (5/16-18) (Housed |
| 29 | #NUT (#10-3 870-0053 | 8 | Hex - End Fastener Mounting | | | | Sets) Used With 155-0360 Critical Muffler |
| | 870-0298 | 4 | Self Locking - Middle Fastener Mounting | # - Inc | luded in 405 | -1084 Side | e Panel Assembly. |

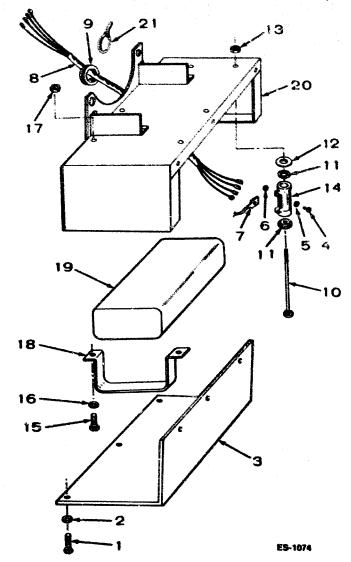
AC METER PANEL - OPTIONAL



AC METER PANEL - OPTIONAL

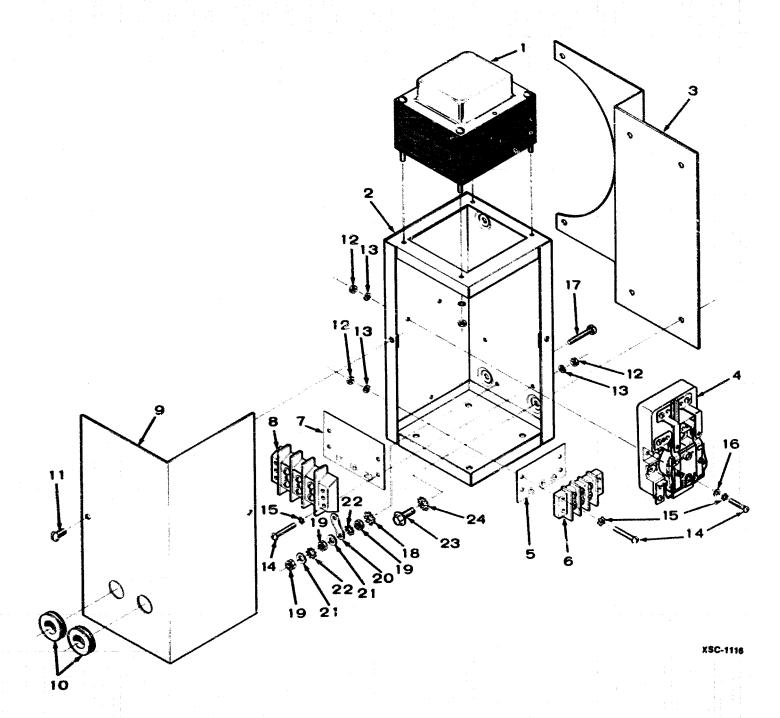
| REF. | PART | QTY. | PART | REF. | PART | QTY. | PART |
|------|----------------|------|---------------------------------|------|--------------|------------|----------------------------|
| NO. | NO. | USED | DESCRIPTION | NO. | NO. | USED | DESCRIPTION |
| 1 | 1 PANEL, METER | | | 6 | | | Select According to |
| | | | 120/208 Volts | | Existing Bro | eaker) | |
| | 004 0400 | | Spec A through Z | | | | Single Pole |
| | 301-2138 | 1 | Sets Without Frequency | | 320-0021 | As Req. | 60 Amp. 120 Volt |
| | | _ | Meter | | 320-0366 | As Req. | 65 Amp. 120/240 Volt |
| | 301-2204 | 1 | Sets With Frequency Meter | | 320-0367 | As Req. | 75 Amp, 120/240 Volt |
| | 301-2204 | Ť | Begin Spec AA | | 320-0017 | As Req. | 10 Amp. 240 Volt |
| | | | 120/240 Volts | | 320-0198 | As Req. | 45 Amp, 240 Volt |
| | | | Spec A through Z | | 320-0052 | As Req. | 50 Amp, 240 Volt |
| | | _ | Single Phase Sets | | 320-0195 | As Req. | 55 Amp, 240 Volt |
| | 301-1551 | 1 | Sets Without Frequency | | 320-0148 | As Req. | 70 Amp, 240 Volt |
| | | _ | Meter | | 320-0151 | As Req. | 25 Amp, 480 Volt |
| | 301-2288 | 1 | Sets With Frequency | | 320-0152 | As Req. | 30 Amp, 480 Volt |
| | | | Meter | | 320-0197 | As Req. | 35 Amp. 480 Volt |
| | | _ | Three Phase Sets | | | | Three Pole Companion |
| | 301-2138 | 1 | Sets Without Frequency | | 320-0409 | As Req. | 55 Amp, 240 Volt |
| | | | Meter | | 320-0487 | As Req. | 25 Amp, 480 Volt |
| | 301-2204 | 1 | Sets With Frequency | | 320-0488 | As Req. | 30 Amp, 480 Volt |
| | | | Meter | | 320-0489 | As Req. | 35 Amp, 480 Volt |
| | | | Begin Spec AA | | 320-0228 | As Req. | |
| | 301-2288 | 1 | Single Phase Sets | | 320-0551 | As Req. | 25 Amp, 600 Volt |
| | 301-2204 | 1 | Three Phase Sets | 7 | AMMETER. | AC (Select | According to Scale) |
| | | | 127/220 Volts | | 302-0418 | | Scale Reads 0-30 |
| | 301-2204 | 1 | Begin Spec AA | | 302-0444 | As Req. | Scale Reads 0-35 |
| | | | 220/380 Volts | | 302-0419 | As Req. | Scale Reads 0-50 |
| | | | Spec A through Z | | 302-0458 | | Scale Reads 0-80 |
| | 301-2330 | 1 | Sets Without Frequency | | 302-0408 | | Scale Reads 0-100 |
| | | | Meter | | 302-0410 | • | Scale Reads 0-150 |
| | 301-2308 | 1 | Sets With Frequency Meter | | 302-0411 | • | Scale Reads 0-200 |
| | 301-2308 | 1 | Begin Spec AA | 8 | | | ect According to Scale) |
| | | | 240/416 Volts | | 302-0420 | 1 | Scale Reads 0-150 |
| | 301-2308 | 1 | Begin Spec AA | | 302-0421 | 1 | Scale Reads 0-300 |
| | | | 227/480 Volts | | 302-0612 | i | Scale Reads 0-500 |
| | | | Spec A through Z | | 302-0422 | i | Scale Reads 0-600 |
| | 301-2330 | 1 | Sets Without Frequency | | 302-0423 | 1 | Scale Reads 0-750 |
| | | - | Meter | 9 | | | ME (Check Existing Meter |
| | 301-2308 | 1 | Sets With Frequency Meter | _ | for Part Nu | | via (Origon Exioting motor |
| | 301-2308 | 1 | Begin Spec AA | | | | 50 Hertz |
| | | • | 347/600 Voits | | 302-0468 | 1 | 120 Volt |
| | | | Spec A through Z | | 302-0469 | i | 240 Volt |
| | 301-2372 | 1 | Sets Without Frequency | | 000 0 100 | • | 60 Hertz |
| | 55. 25.2 | • | Meter | | 302-0465 | 1 | 120 Volt |
| | 301-2397 | 1 | Sets With Frequency Meter | | 302-0466 | i | 240 Volt |
| | 301-3736 | i | Begin Spec AA | | 302-0467 | i | 480 Volt |
| | 301-3730 | • | Broad Range Sets | 10 | | | (Select According to Hertz |
| | 301-3732 | 1 | Begin Spec AA | 10 | and Volts) | EGOLIACI | (Select According to Hertz |
| 2 | 308-0012 | 1 | Switch, Voltage Selector - | | and voits) | | 50 Hertz |
| - 2 | 300-0012 | | Three Phase Sets | | 302-0234 | | 100-150 Volt |
| 3 | 303-0076 | 1 | Knob, Voltage Selector Switch - | | 302-0256 | 1 | |
| ت | 303-0070 | | Three Phase Sets | | 302-0256 | 1 | 200-250 Volt |
| | 204 0526 | 4 | | | 302-0625 | | 480 Volt |
| 4 | 304-0536 | 1 | Resistor, Fixed (9,000 Ohm, | | 302-0766 | 1 | 600 Volt |
| | | | 50 Watt) Running Time Meter - | | 202 0012 | • | 60 Hertz |
| | DAD GIROS | | 600 Volt Sets | | 302-0213 | 1 | 100-150 Volt |
| 5 | BAR, CIRCU | | | | 302-0221 | 1 | 200-250 Volt |
| | 320-0187 | 1 | Sets With 3 Circuit Breakers | | 302-0716 | 1 | 480 Volt |
| | 320-0202 | 1 | Sets With 2 Circuit Breakers | | 302-0717 | 1 | 600 Volt |

VOLTAGE REGULATOR FILTER (BEGIN SPEC AA) - OPTIONAL



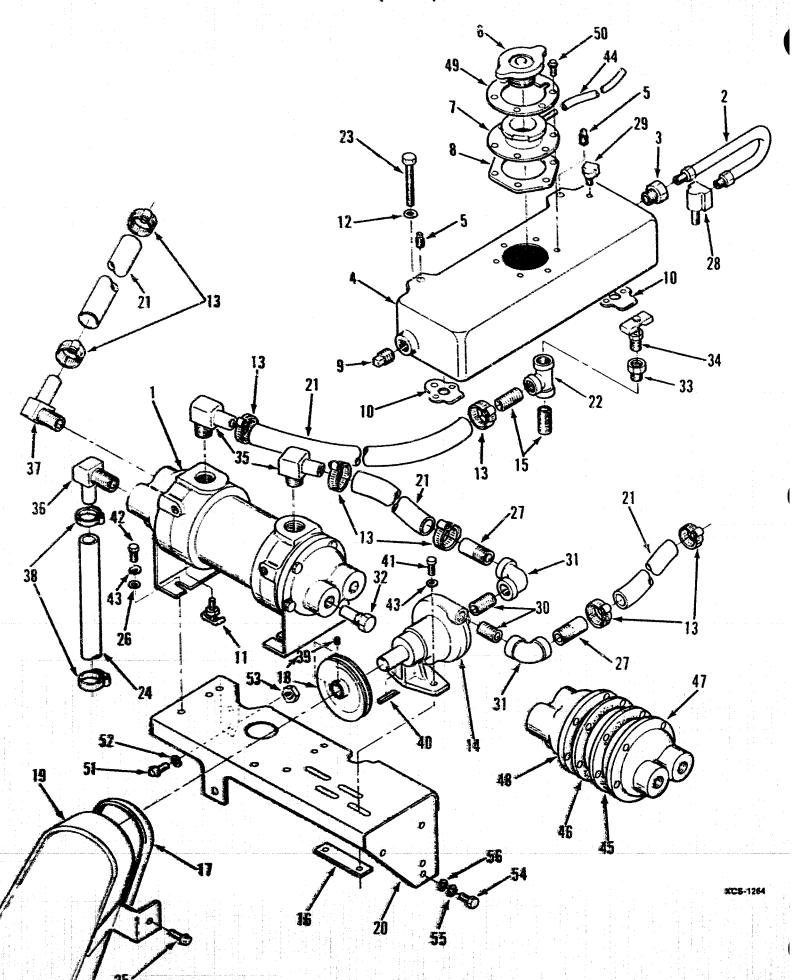
| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|-------------|--------------|---|
| 1 | 813-0098 | 6 | Screw, Machine - Round Head (#10-32 x 3/8") |
| 2 | 850-0030 | 6 | Washer, Lock - Spring (#10) |
| 3 | 232-2463 | 1 | Cover, Housing |
| 4 | 815-0001 | 4 | Screw, Machine - Binding Head Brass (#6-32 x 1/4") |
| 5 | 853-0003 | 4 | Washer, Lock - ET (#6) |
| 6 | 860-0006 | 4 | Nut, Hex (#6-32) |
| 7 | 332-1279 | 4 | Terminal, Lug |
| 8 | 338-1165 | 1 | Harness, Wiring |
| 9 | 508-0071 | 1 | Grommet, Rubber |
| 10 | 813-0112 | 2 | Screw, Machine - Round Head (#10-32 x 2-1/2") |
| 11 | 304-0015 | 4 | Washer, Centering |
| 12 | 304-0292 | 2 | Insulator, Fesistor |
| 13 | 870-0053 | 2 | Nut, Hex (#10-32) |
| 14 | 304-0120 | 2 | Resistor, Fixed (2 Ohm, 25 Watt) |
| 15 | 812-0079 | 4 | Screw, Machine - Round Head (#8-32 x 1/2") |
| 16 | 850-0025 | 4 | Washer, Lock - Spring (#8) |
| 17 | 860-0008 | 4: | Nut, Hex (#8-32) |
| 18 | 312-0198 | 2 | Bracket, Mounting - Capacitor |
| 19 | 312-0197 | 1 | Capacitor |
| 20 | 232-2462 | 1 | Housing, Filter |
| 21 | 332-0942 | 2 | Tie, Cable |
| | 625-1310 | | Diagram, Wiring |
| | | | |

CONTINUOUS GLOW PLUG CONTROL (BEGIN SPEC AB) - OPTIONAL



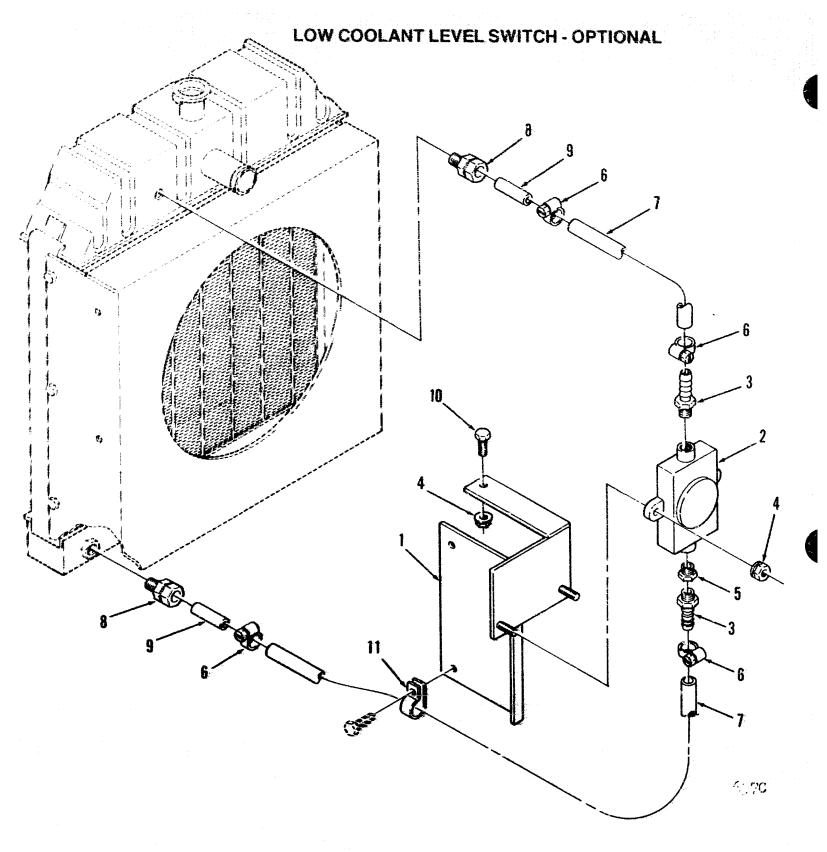
| REF. | PART NO. | QTY. USED | PART DESCRIPTION | REF NO | | QTY. USED | PART DESCRIPTION |
|------|----------------------|--------------|--|-----------|----------|--------------|--|
| 1 | 315-0433 | 1 | Transformer (Includes Mounting Hardware) | 14 | 812-0082 | 6 | Screw, Machine - Round Head Steel (#8-32 x 3/4") |
| 2 | 301-4428 | 1 | Box, Control | 15 | 853-0005 | 6 | Washer, Lock - ET (#8) |
| 3 | 301-4821 307-1274 | 1 | Bracket, Mounting Relay | 16 | 526-0048 | 2 | Washer, Flat - Brass (.172 ID x 3/8" OD x 1/32" Thk) |
| 5 | 332-2566 | | Strip, Marker (Marked 19, 16, 15) | 17 | 815-0203 | 1 | Screw, Machine - Round Head Brass With ET (#10-32 x 7/8") |
| 6 | 332-0406 | 1 | Block, Terminal (2-21/32" lg) | 18 | 856-0003 | 1 | Washer, Lock - EIT (#10) |
| 7 | 332-2567 | 1 | Strip, Marker (Marked 17, | 19 | 871-0010 | 3 | Nut, Hex - Brass (#10-32) |
| • | July 200 | • | 18, 20) | 20 | 332-0592 | . 3 | Jumper, Ground |
| 8 | 332-0236 | 1 . | Block, Terminal (3-3/16" lg) Cover, Control Box | 21 | 526-0049 | 2 | Washer, Flat - Brass (.200 ID x 7/16" OD x 1/32" Thk) |
| 9 | 301-4429 | | 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 | 22 | 853-0008 | 2 | Washer, Lock - ET (#10) |
| 10 | 508-0001 | 2 | Grommet | : | | | |
| 11 | 815-0026 | 2 | Screw, Machine - Truss Head (#10-32 x 3/8") | 23 | 821-0014 | 4 | Screw, Cap - Hex Locking Washer Head (5/16-18 x 1/2") |
| 12 | 860-0008 | 6 | Nut, Hex (#8-32) | 24 | 856-0008 | 4 | Washer, Lock - EIT (5/16") |
| 13 | 850-0025 | 6 | Waster, Lock - Spring (#8) | | 625-1581 | | Diagram, Wiring |

HEAT EXCHANGER (KEY 2) - OPTIONAL



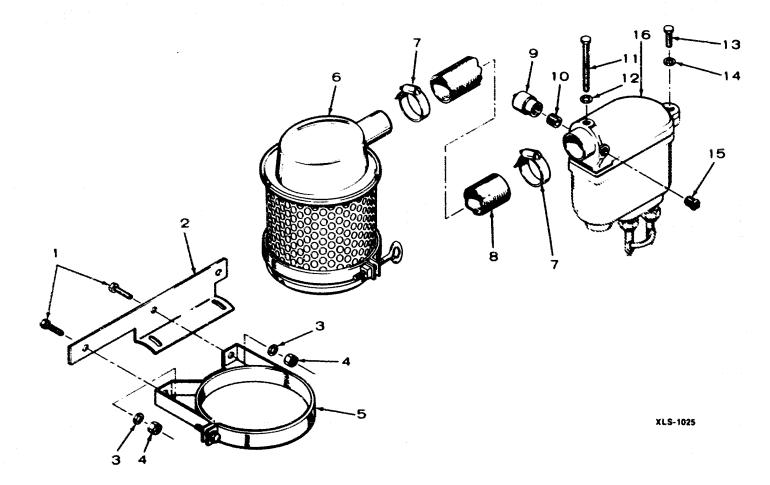
HEAT EXCHANGER (KEY 2) - OPTIONAL

| REF. | PART | QTY. | PART | REF. | PART | QTY. | PART |
|------|----------------------|-------------|---------------------------------|------|-----------------|---------|--|
| NO. | NO. | USED | DESCRIPTION | NO. | NO. | USED | DESCRIPTION |
| 1 | 130-0624 | 1 - | Exchanger, Heat | 29 | 502-0037 | 1 | Elbow, Inverted Male (Brass) |
| 2 | 130-0575 | 1 | Line, Water - Expansion Tank | 30 | 502-0085 | 2 | Nipple, Close - Brass (3/8") |
| | | | to Exhaust Manifold | 31 | 502-0263 | 2 | Elbow, Brass (3/8" - 90°) |
| - 3 | 502-0103 | 1 | Connector, Inverted Male - | 32 | 130-1340 | 2 | Pencil, Zinc (Included |
| | | | Expansion Tank Outlet | | | | in Heat Exchanger) |
| 4 | 130-0646 | 1 | Tank, Expansion | 33 | 502-0049 | 1 | Bushing (3/8 x 1/8"), |
| 5 | 502-0080 | 2 | Plug, Expansion Tank Fill | 33 | 302-0049 | * | Reducer (Brass) |
| | | | Vent | 34 | 504-0006 | 2 | Valve - Air Bleed |
| 6 | 130-0589 | 1 | Cap, Pressure | 34 | 304-0000 | • | Manifold Outlet |
| 7 | 130-0590 | 1 | Neck and Adapter, Expansion | 35 | 502-0300 | 2 | Elbow, Brass - Heat |
| | | | Tank Cap | 33 | 302-0300 | ~ | Exchanger Fresh Water Hoses |
| € | 130-0519 | 1 | Gasket, Neck and Adapter | 36 | 502-0302 | 1 | Elbow. Brass - Heat |
| 9 | 502-0155 | 1 | Plug (3/8") | 30 | 302-0302 | • | Exchanger Raw Water Inlet |
| 10 | 309-0145 | 2 | Gasket, Thermostat Chamber | | | | Hose |
| 11 | 504-0003 | 1 | Valve. Drain | 37 | 502-0237 | 1 | Elbow, Brass - Heat |
| 12 | 526-0965 | 4 | Washer, Flat - Copper | 3/ | 302-0237 | • | Exchanger Raw Water Outlet |
| 1 & | 520 0500 | | (21/64" ID x 9/16" OD | | | | Hose |
| | | | x 1/16" Thk) Tank Mounting | 38 | 503-0446 | 2 | Clamp, Hose |
| 13 | 503-0183 | 8 | Clamp, Hose | 39 | SCREW, SET | | Clamp, nose |
| 14 | | | separate Group for Components) | 39 | 803-0062 | 1 | Water Pump with Flat |
| 7-4 | 132-0262 | i En (See S | Pumps With Flat Area | | 003-0002 | • | Area on Shaft |
| | 132-0202 | • | on Shaft (Replacement Kit - | | ດດາ ດດຄາ | 2 | *Water Pump with Keyed |
| | | | Includes 132-0110 Water | | 803-0062 | ۷. | Area on Shaft |
| | | | Pump and Parts Marked *) | 40 | 515-0249 | 1 | *Key - Pulley to Water |
| | 132-0110 | 1 | Pumps With Keyed Area | 40 | 313-0249 | • | Pump |
| | 132-0110 | • | on Shaft | | SCREW, CAR | LIEVE | |
| 15 | 505-0101 | 2 | Nipple, Pipe - Close | 41 | | 2 | Water Pump Mounting |
| 15 | 202-0101 | Z | (3/8") | 41 | 800-0005 | 2 | |
| | *** 0**0 | • | Bar, Pump Holddown | 40 | 000 0004 | 4 | (1/4-20 x 3/4") Heat Exchanger Mounting |
| 16 | 131-0130 511-0067 | .1 | Belt, Centrifugal Water | 42 | 800-0004 | 4 | |
| 17 | 311-090/ | 1 | Pump | 40 | WACUED 10 | vev en | (1/4-20 x 5/8") |
| * 0 | The of A Englisher | TAMATED | PUMP (Includes Set Screws) | 43 | WASHER, LC | | |
| 18 | | | Water Pumps With Flat | | 850-0040 | 2. | Water Pump Mounting |
| | 512-0134 | 1 | Area on Shaft | | 850-0040 | 4 | Heat Exchanger Mounting Hose, Overflow (13") |
| | 420 DOED | • | *Water Pumps With Keyed | 44 | 503-1261 | 1 | |
| | 132-0252 | 1 | Area on Shaft | 45 | 130-0729 | i | Gasket - Heat Exchanger Fresh Water End |
| 19 | GUARD, BE | ı T | Area on Shan | 46 | 400 0700 | | |
| 13 | 130-0920 | 1 | Spec A Through AB | 46 | 130-0730 | 1 | Gasket - Heat Exchanger Raw |
| | 130-0520 | 1 | Begin Spec AC | 47 | 120 0721 | • | Water End |
| 20 | BBACKET A | | HANGER AND | 47 | 130-0731 | . 1, | Bonnet (Includes Gasket) |
| 20 | GOVERNOF | | INICE! INITE | | | | Heat Exchanger Fresh |
| | 130-0692 | 1 | Spec A Through AC | 40 | **** 0700 | | Water End |
| | 130-2167 | | Begin Spec AD | 48 | 130-0732 | 1 | Bonnet (Includes Gasket) |
| 21 | 503-1196 | 1 | Hose (3/4" ID x 54") Rubber - | | | | Heat Exchanger Raw Water End |
| - | 505 1150 | • | | 40 | 100 0000 | | |
| 1 | | | Total Length Required for | 49 | 130-0892 | 1 | Stiffener, Filler Neck |
| | | | All Hoses Except Raw Water Pump | 50 | 821-0005 | 6 | Screw, Locking Head |
| 22 | 505-0060 | 1 | Tee. Pipe (3/8") | | 004 0040 | • . | Flange (10-32 x 1/2") |
| 23 | 800-0041 | 4 | Screw. Cap - Hex Head | 51 | 821-0018 | . 1 | Screw, Locking Head - |
| 23 | 000-0041 | - | (5/16-18 x 4") Tank Mounting | | 050 0040 | | Flange (1/4-20 x 5/8") |
| 24 | 503-0890 | 1 | Hose (1/2" ID x 14") | 52 | 850-0040 | 1 | Washer, Lock - Spring |
| | 305-0050 | • | Rubber - Raw Water Pump | | 000 0004 | | (1/4") |
| | | | to Heat Exchanger | 53 | 862-0001 | 1 | Nut, Hex (1/4-20) |
| 25 | 621-0010 | . 3 | Screw, Locking Head - | 54 | 800-0026 | 2 | Screw, Cap - Hex Head |
| 2.0 | 021-0010 | 3 | Flange (1/4-20 x 1/2") | | 050 0045 | _ | (5/16-18 x 3/4") |
| 26 | 526-0158 | 4 | Washer, Flat (1/4") | 55 | 850-0045 | 2 | Washer, Lock - Spring |
| 27 | 502-0136 | 2 | Nipple Half - Brass | | | | (5/16") |
| 21 | JUZ-UZ 30 | 4 | (3/8" x 2") | 56 | 526-0113 | 2 | Washer, Flat (11/32" ID x |
| 20 | 502-0074 | 1 | Elbow, Inverted Male - | | | | 1" OD x 3/32" Thk) |
| 28 | 302-0014 | : | Manifold Water Line Inlet | | | 400 000 | O Water Orona Danisa and Ma |
| | | | (Brass) | - Pa | rts included in | 132-026 | 2 Water Pump Replacement Kit |
| | | | (Ciapa) | | | | |



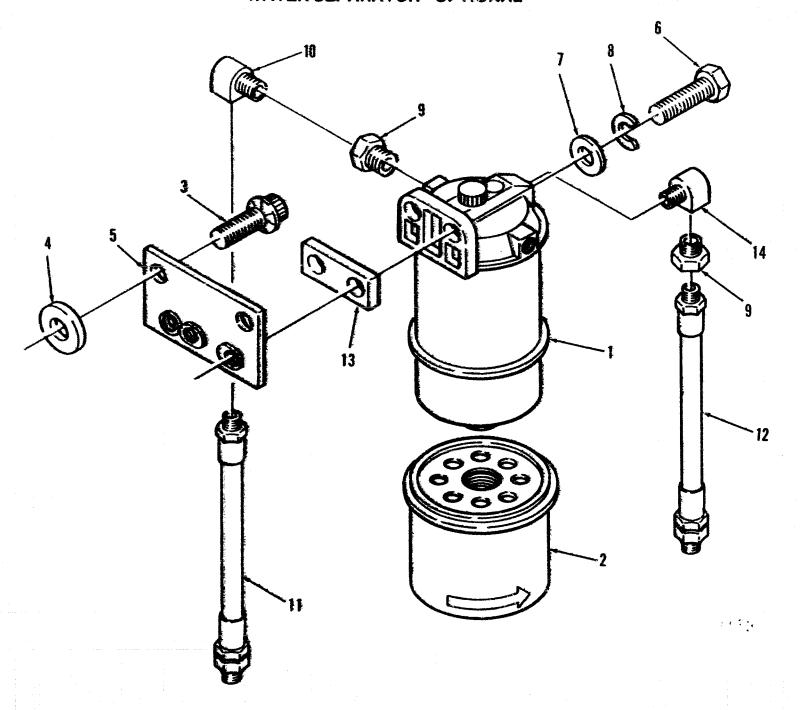
| REF. | PART | QTY. | PART |
|------|----------|--------|--|
| NO | NO. | USED | DESCRIPTION |
| 1 | 405-3015 | 1 | Plate: Mounting: |
| 2 | 193-0292 | · 1-·· | Switch (Includes: Two Tube to Radiator: Adapters) |
| 36 | 502-0389 | 2. | Connector, Hose |
| 4: | 870-0212 | 3 | Nut, Hex - Self-Locking (1/4-20) |
| 5. | 505-0151 | 1: | Bushing Reducer |
| 6 | 503-0685 | 4 | Clamp, Hose |
| 7 | 503-0757 | 2 | Hose, Vinyl |
| 8 | 502-0009 | 2 | Adapter:- Tube to Radiator |
| 9 | 130-2053 | 2 | Tube |
| 10 | 821-0015 | 1 | Screw, Self Locking - Hex Washer Head (1/4-20 x 3/4") |
| 11. | 332-0052 | 1 | Clip, Retainer |

OIL BATH AIR CLEANER - OPTIONAL



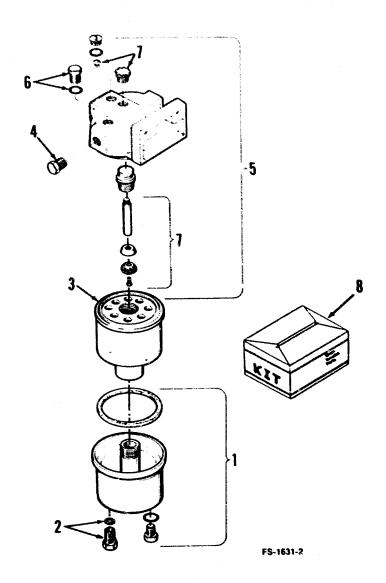
| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|-------------|--------------|--|
| 1 | 800-6003 | 2 | Screw, Cap - Hex Head (1 4-20 x 1.2") |
| 2 | 140-0880 | 1 | Bracket, Cleaner Mounting - Housed Sets |
| 3 | 850-0040 | 2 | Washer, Lock - Spring (1-4") |
| 4 | 862-0001 | 2 | Nut. Hex (1 4-20) |
| 5 | 140-0519 | 1 | Band, Air Cleaner Mounting |
| | 140-0500 | 1 | Cleaner, Oil Bath Air |
| . 7 | 503-0274 | 2 | Clamp, Hose |
| 8 | 503-0444 | 1 | Hose, Rubber (30") |
| 9 | 140-0961 | 1 | Indicator, Restriction - Late Models |
| 10 | 140-1260 | 1 | Fitting, Restriction Indicator - Late Models |
| 11 | 800-0015 | 1 | Screw. Cap - Hex Head (1.4-20 x 3") |
| 12 | 526-0108 | 1 | Washer, Flat (17/64" ID x 7/16" OD x 1/32" Thk) |
| 13 | 800-0007 | 1 | Screw. Cap - Hex Head (1 4-20 x 1") |
| 14 | 850-0040 | 1 | Washer, Lock - Spring (1/4") |
| 15 | 505-0008 | 1 | Plug. Pipe (1:4' Slotted) - Sets With Restriction Indicator |
| 16 | ADAPTER. | AIR CLEAN | NER HOSE |
| | 140-0645 | 1 | Sets Without Restriction Indicator |
| | 140-1212 | 1 | Sets With Restriction Indicator |

WATER SEPARATOR - OPTIONAL



| MEF. | PART NO. | QTY. USED | PART DESCRIPTION |
|------|-------------|--------------|--|
| 1 | 148-1908-01 | 1 | Separator, Water (Includes Filter Element) (See Separate Group for Components) |
| 2 | 149-1914-01 | 1 | Element |
| 3 | 821-0014 | 2 | Screw, Flange Hex Washer Head (5/16-18 x 1/2") |
| 4 | 526-0122 | 2 | Spacer (11/32" ID x 23/32" OD x 1/8" This) |
| 5 | 149-1623 | 1 | Bracket, Mounting |
| 6 | 800-0008 | 2 | Screw, Cap - Hex Head (1/4-20 x 1-1/4") |
| 7 | 526-0015 | 2 | Washer, Flat (1/4") |
| 8 | 850-0040 | 2 | Washer, Lock - Spring (1/4") |
| 9 | 502-0029 | 2 | Bushing, Reducer (1/4" to 1/8") |
| 10 | 502-0020 | 1 | Elbow, Street - 90° (1/8") |
| 11 | 501-0004 | 1 | Line, Fuel - Flexible (12") Outlet |
| 12 | 501-0007 | 1 | Line, Fuel - Flexible (24") Inlet |
| 13 | 149-1922 | 1 | Spacer, Mounting |
| 14 | 502-0054 | 1. | Elbow, Street - 90° (1/4") |

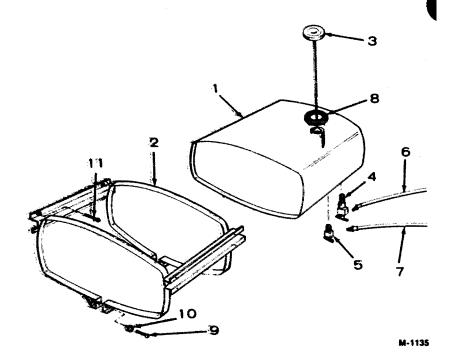
WATER SEPARATOR COMPONENTS



| REF. | PART | QTY. | PART |
|------|-------------|----------|---|
| NO. | NO. | USED | DESCRIPTION |
| | 149-1908-01 | 1 | Separator, Water (Complete) |
| 1 | 149-2046 | 1 | Bowl Kit, Metal - Replacement (Includes Plug, O-Rings and Drain Assembly) |
| 2 | 149-1953 | 1 | Drain Assembly (Includes Knob and Seal) |
| 3 | 149-1914-01 | 1 | Element (Includes Seals) |
| 4 | 502-0153 | 1 | Plug, Hex (1/4") |
| 5 | 149-1949 | 1 | Head Assembly - Replacement (Includes Vent Plug, O-Rings, |
| | | | Seal, Cap, Tube and Pump Assembly) |
| 6 | 149-1952 | 1 | Plug, Vent (includes O-Ring) |
| 7 | 149-2047 | 1 | Pump Assembly (Includes Plunger, Retainer, Shaft, Check Ball, Knob and Screw) |
| 8 | 149-2045 | 1 | O-Ring Kit (Includes Seal and Plunger) |

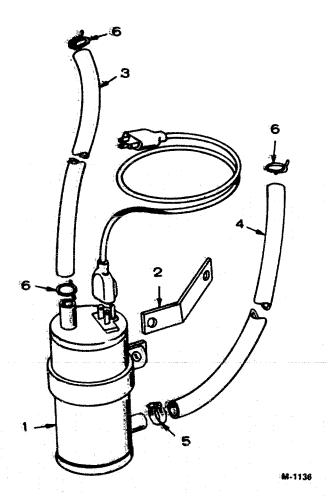
FUEL TANK (HOUSED SETS) - OPTIONAL

| REF. | PART NO. | OTY. | PART DESCRIPTION |
|------|-----------------------|------|--|
| 1 | 159-0639 | 1 | Tank, Fuel (15 Gallons) |
| 2 | 159-0640 | 4 | Band, Fuel Tant, Holddown |
| 3 | 159-0642 | 3 | Cap and Indicator Assembly |
| 4 | 504-0013 | 1 | Valve and Screen Assembly |
| • | 33, 33,10 | • | Fuel Shut-Off - Tank Outlet |
| 5 | 504-0007 | 1 | Valve, Fuel Shut-Off - Tank |
| | | | Inlet (Return Line) |
| 6 | 501-0005 | 1 | Line, Flex Fuel (18-127) - Tank to Pump |
| 7 | 501-0066 | 1 | Line, Flex Fuel (31") - |
| | | | Fuel Return |
| 8 | 1 59- 0751 | 1 | Gasket, Gas Tank Fill Neck |
| 9 | 812-0166 | 2 | Screw (1/4-20 x.3-1/2"), Round Head |
| 10 | 850-0040 | .2 | Washer (1/4"), Lock |
| 11 | | - | |
| 4 4 | 821-0010 | ₿ | Screw (1/4-20 x 1/2"), Self-Locking |

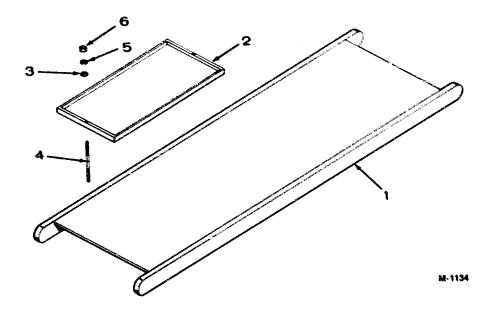


WATER JACKET HEATER - OPTIONAL

| | | | b |
|------|-------------------|--------------|---------------------------|
| REF. | PART NO. | OTY. USED | PART DESCRIPTION |
| 1 | 333-0054 | 1 | Heater, Water Jacket |
| 2 | 130-3755 | 1 | Bracket, Mounting |
| 3 | 503- 056 6 | 1 | Hose Rubber (5/8" x 18") |
| 4 | 503-0565 | 1 | Hose, Rubber (5/8" x 20") |
| 5 | 503-0183 | 1 | Clamp, Hose |
| 6 | 503-0197 | .3 | Clamp, Hose |

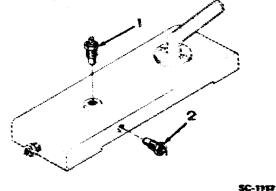


SKID AND BATTERY RACK (KEY 2) - OPTIONAL



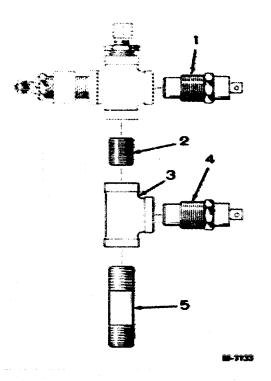
| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION | | |
|-------------|-------------|--------------|---|--|--|
| 1 | 403-0661 | 1 | Skid | | |
| 2 | 416-0502 | 1 | Frame, Battery | | |
| 3 | 526-0115 | 2 | Washer, Flat (11/32" ID x 11/16" OD x 1/16" Thk) | | |
| 4 | 520-0490 | 2 | Stud, Battery Frame | | |
| 5 | 850-0045 | 2 | Washer, Lock - Spring (5/16") | | |
| 6 | 862-0015 | 6 | Nut, Hex (5/16-18) | | |

DUAL HIGH WATER TEMPERATURE SWITCH (KEY 1) - OPTIONAL



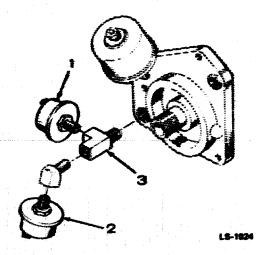
| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|------------------|--------------|---|
| 1 | 309-6178 | 1 | Switch, High Water Temperature (Opens at 180° - Closes at 205°) |
| 2 | 309 -0179 | 1 | Switch, High Water Temperature (Opens at 190° - Closes at 215°) |

DUAL HIGH WATER TEMPERATURE SWITCH (KEY 2) - OPTIONAL



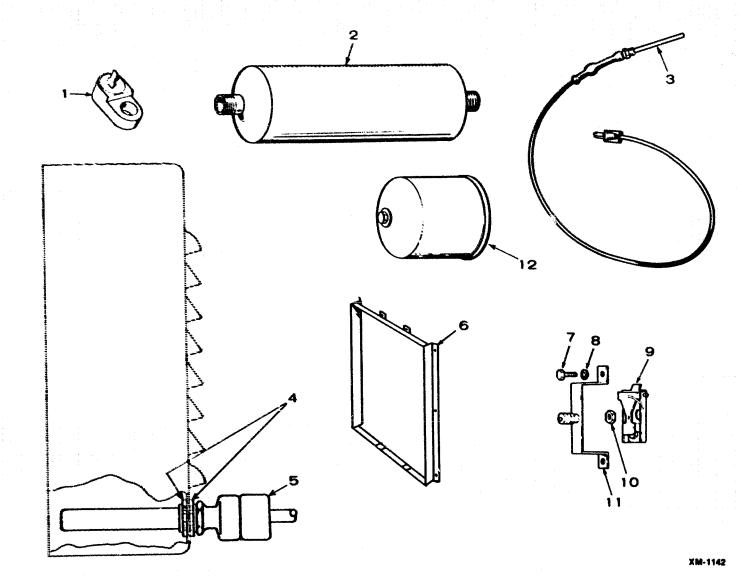
| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|-------------|--------------|---|
| 1 | 309-0178 | 1 | Switch, High Water Temperature (Opens at 180° - Closes at 205°) |
| 2 | 505-0101 | 1 | Nipple, Pipe - Close (3/8" x 1-1/8") |
| 3 | 505-0060 | 1 | Tee, Pipe (3/8") |
| 4 | 309-0179 | 1 | Switch, High Water Temperature (Opens at 190° - Closes at 215°) |
| 5 | 505-0075 | 1 | Nipple, Pipe (3/8" x 2-1/2") |

DUAL LOW OIL PRESSURE SWITCH - OPTIONAL



| REF. NO. | PART NO. | QTY. USED | PART DESCRIPTION |
|-------------|-------------|--------------|---|
| 1 , | 309-0064 | 1 | Switch, Low Oil Pressure (Closes at 9 lbs. Descending) |
| 2 | 309-0169 | 1 | Switch, Low Oil Pressure |
| 3 | 502-0058 | 1 | (Closes at 14 lbs. Descending) Tee, Street Pipe |

MISCELLANEOUS OPTIONAL PARTS



| NO. | NO. | USED | DESCRIPTION | NO. | NO. | USED | DESCRIPTION |
|-----|----------|------|---------------------------------|-----|-----------|-----------|-------------------------------|
| 1 | 309-0269 | 1 | Switch, Low Engine | 8 | WASHER, L | OCK - SPR | ING CONTRACTOR |
| • | | | Temperature | | 850-0030 | 2 | #10 - Spec A through Z |
| 2 | 155-0360 | 1 | Muffler, Critical - Housed Sets | | 850-0040 | 2 | 1/4" - Begin Spec AA |
| 3 | 102-0558 | 1 | Heater, Oil Base | 9 | SWITCH, O | VERSPEEC | |
| 4 | 331-0041 | 2 | Nut, Lock (1/2") - Begin | | 150-0956 | 1 | 60 Hertz Sets |
| | | | Spec AA | | 150-1661 | 1 | 50 Hertz Sets |
| 5 | 333-0184 | 1 | Heater, Generator Space - | 10 | 868-0004 | 1 | Nut, Jam - Hex Head (7/16-20) |
| | | | Begin Spec AA | 11 | BRACKET | AND POINT | T ASSEMBLY |
| 6 | 405-1157 | 1 | Flange, Air Duct Adapter | | 150-0958 | 1 | Spec A through Z |
| | | | (Key 1) | | 150-1446 | 1 | Begin Spec AA |
| 7 | SCREW | | | 12 | 122-0193 | : 1 | Filter, Oil - Heavy Duty |
| | 813-0100 | 2 | Machine - Round Head | | | | (5-3/4" lg) |

PART

800-0003

REF.

QTY.

2

PART

Machine - Round Head (#10-32 x 1/2") - Spec A

through Z Cap - Hex Head (1/4-20 x 1/2") Begin Spec AA

REF.

PART

PART

QTY.